

MINISTRY OF THE INTERIOR, EGYPT.

AC II  

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Department of Public Health.

---

Ophthalmic Section.

---

Eighteenth Annual Report  
for the Ophthalmic Section,  
1930.



Government Press, Cairo, 1931.

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## Report of the Ophthalmic Section, 1930.

### Foreword.

### NEW UNITS.

During this year an Ophthalmic Branch in the General Hospital at Dissuk was opened; thereby the number of Ophthalmic Units reached 46 (of which 32 are permanent and 14 travelling). This number shows an increase of one Ophthalmic Unit over that of 1929.

### OPHTHALMIC TREATMENT AT PORT SAID CITY.

Ophthalmic treatment commenced at this city since 1921 till the middle of 1930 in a temporary building belonging to the Municipality. It was found inadequate to meet the needs of such a large city; therefore a big Ophthalmic Hospital was built there on the shore of the Mediterranean. It contains 36 beds free for the poor, 6 beds for the superior third class, 4 beds for the second class and 2 beds for the first class. It also contains a large section for out-patients. It is fully equipped with the most recent ophthalmic appliances. Nursing therein is carried out by trained female nurses. It was the first trial in the Ophthalmic Hospitals that nursing and clinical assistance are carried out by female nurses, according to the recent policy of the Department, which proved to be satisfactory. The hospital was opened for treatment on July 19th 1930.

### OPHTHALMIC TREATMENT AT CAIRO CITY.

For the purpose of providing ophthalmic treatment for the poor specially in the populous quarters lying at a distance from the Ophthalmic Hospitals in this large city, the Department pitched a Camp Hospital at Abbassia quarter. This Camp remained there until the building of a general hospital at the expense of late Dimirdash Pasha, containing an ophthalmic branch, was about to be completed. The Camp was then removed to Khalifa quarter, Citadel square, since November 8th 1930 and will remain there until an Ophthalmic Hospital is built there; this project has been approved of in principle by the Government and is in the way of execution.

### OPHTHALMIC PROJECTS DECIDED.

During 1930 the building of a large general hospital containing an ophthalmic branch at Abbassia was under completion as already mentioned. Ophthalmic treatment commenced therein in the time of preparing this report.

Also a general hospital containing an ophthalmic branch was built at Luxor at the expense of the Government. The building was taken over by the Department and treatment therein is expected to commence shortly.

Also the Provincial Council of Minia decided to establish, at his expense, an ophthalmic hospital at Samalout and arrangements are being made to put this project into force.

It was also decided to enlarge the in-patients' section at Beni Suef Ophthalmic Hospital at the expense of both the Municipality and Provincial Council of Beni Suef and is expected to be executed shortly.

The Provincial Council of Gharbia has also decided to establish at his expense a special ophthalmic hospital at Dissuk, an ophthalmic branch at Kafr el Sheikh general hospital and in-patients' sections at both Mehalla El Kubra and Kafr El Zayat ophthalmic hospitals which projects are under consideration.

## CLINICAL WORK.

The following table shows the clinical work done in 1930 as compared with that of 1929:

|                                  | 1929      | 1930      | Increase in<br>1930<br>Per cent. |
|----------------------------------|-----------|-----------|----------------------------------|
| New Patients ... ... ... ...     | 461,481   | 526,406   | 14                               |
| In-patients ... ... ... ...      | 16,890    | 20,136    | 19                               |
| Operations ... ... ... ...       | 195,942   | 209,662   | 7                                |
| Out-patients attendances ... ... | 4,242,241 | 4,350,062 | 3                                |

## BLINDNESS.

The number of patients who were found blind in one or both eyes was 45,534 or 8·4 per cent of all patients examined at the ophthalmic hospitals. By omitting the factor of blindness resulting from cataract, the percentage becomes 8 instead of 8·4. It was noticed that the number of 2,933 senile cataract mentioned in Table No. XII among factors of blindness may be omitted in preparing the percentage of blindness considering that a patient with cataract is liable to see after operation. Sir Parsons, the well known ophthalmic Surgeon at Moorfield Hospital in Great Britain, was consulted on this point and his reply was thus "Personally, I refuse to sign up as blind any case in which I think that operative or other treatment is likely to improve vision sufficiently to enable the patient to work. I think my colleagues probably adopt the same attitude."

This will be followed in the future reports, *i.e.* cataract cases of all kinds liable to acquire serviceable vision by treatment will be omitted in the table of causes for blindness.

The Pathological causes of blindness are detailed in Table No. XII where it is shown that acute ophthalmias form 80 per cent of all causes. The gonococcus is still the predominant factor of infection with acute ophthalmias—its percentage to total of microbes being 44 per cent.

## AGES OF PATIENTS.

Out of 526,406 new patients treated, 33,223 or 6·31 per cent were under the age of one year; and 162,891 or 30·94 per cent from one to fifteen years of age. This fact shows that the mass of people recognise the importance of seeking ophthalmic treatment for infants and children.

## SCHOOL CLINICS.

Ophthalmic examination, inspection and treatment are, at present, carried out at 32 Primary Government Schools. Details of ophthalmic work in schools are given in a special section at the end of this report.

11,717 pupils were examined, of whom 92% were found to be suffering from trachoma in its various stages. (This is the same percentage among patients treated at the Ophthalmic Hospitals). About 25% of these were in the serious stages of the disease (trachoma I and II). As a result of ophthalmic treatment, the latter percentage fell to 8%.

In this connection, it may be noticed that through the Government Schools, an accurate percentage, showing to what extent the trachoma is prevalent among school pupils, can be obtained. This is due to the fact that the examination and treatment are carried out in a special regular and permanent way on pupils who are always under the observation of the treating doctors.

The fall of percentage of the serious stages of trachoma in these schools by means of treatment from 25% in the beginning of school year to about 8% at the end of the treatment session has two benefits. The first is the progress of the disease towards healing and the second, which is very important, is the destruction of active follicles, the presence of which is a real danger to the public through the spread of the disease from infected patients to healthy ones. It is therefore concluded that the most important service rendered by the schools ophthalmic clinics to the public is not only treatment but also prophylaxis.

Pupils of other 29 Primary Schools and Kuttabs belonging to the Provincial councils in Markazes (Districts), where permanent or travelling ophthalmic hospitals exist, received ophthalmic treatment at hospitals.

## FINANCE.

The annual cost of maintenance during the year 1930 including the cost of administration and expense of ophthalmic clinics in Primary Schools amounted to L.E. 87,623 as shown in the detailed tables appended to this report which are significant of proper economical management. The expense per day for the out-patient was 15.35 Mills. The in-patient costs in addition about 30 Mills, daily for food. The sources of provision of all Ophthalmic Units is shown in Table XXII.

## ACCOMMODATION.

The number of beds reached 1098, *i.e.*, there is an increase of 111 beds than last year (of these 111 beds, 50 are of the new units and 61 have been added to the old ones). See Table No. 20.

## POST-GRADUATE COURSE OF OPHTHALMOLOGY.

During April 1930 the number of Medical Officers who underwent post-graduate teaching in Ophthalmology was 20 of whom 4 were inspected in the preliminary clinical course and one of them passed; 7 were inspected in the final clinical and 3 of them passed. Those who failed for the first time were given another chance but those who failed for the second time were transferred to other branches of the Department.

During October their number was 25 of whom 11 were inspected in the preliminary clinical course and 5 of them passed; 4 were inspected in the final clinical and all of them passed. Those who failed for the first time were given another chance but those who failed for the second time were transferred to other branches of the Department.

## TREATMENT.

Due to the present financial crises the Department was unable to provide Ophthalmic treatment in the new Ophthalmic branches at the new Markaz general hospitals with the exception of Dissuk ophthalmic branch in which a medical officer volunteered his service freely.

Table No XI, shows the synopsis of work done at all ophthalmic hospitals during 1930. The most obvious figure in this table is the large number of major and minor operations done during the year which reached 93,144 major and 116,518 minor.

The details of these two figures show that the largest number of major operations was for the treatment of trichiasis and entropion resulting from trachoma, thus the operations performed for this disease reached 73,290 most of which were "Modified Snellen's or Grafting operations."

The figure of minor operations includes 104,493 operations for the treatment of trachoma only in the form of squeezing the follicles or removing the post-trachomatous degeneration.

In order to illustrate this great surgical undertaking it should be mentioned that this is done at all ophthalmic hospitals in the various towns of the country during five days of the week and for 3 hours every day between 8 a.m. and 1 p.m.; *i.e.* the surgical work at all ophthalmic hospitals takes 138 hours daily.

Again this huge surgical effort done by the ophthalmic hospitals in treating trachoma and its complications has got two aims, the first is curative and the second, which is very important, is prophylactic. This does not exclude the fact that all other kinds of surgical ophthalmic operations are performed in these ophthalmic hospitals as in other countries, thus 1702 operations of senile cataract extraction and 448 operations for soft cataract in the young have been done. It is only orthodox operative methods which have proved satisfactory by long trial and experience that are being done in the hospitals. For example in the senile cataract, it is the combined operation which is still being done that is to say the operation of extracting the lens with iridectomy and no other kind is done. Also the operative treatment of glaucoma is done by iridectomy operation, Graefe, in the acute type and by the trephine operation with iridectomy, Elliot, in the chronic type. No other operations are done for the treatment of this disease.

The prophylactic iridectomy operations are done for the recent prolapse of iris and laucoma adherent for every patient affected with these diseases whose age is not more than 20 years and above this age in cases where the adhesion of the iris to the cornea is not more than one year duration. All sorts of other major operations detailed in table of operations No IV. are being done.

It should be noted that the ophthalmic hospitals have examined and treated, during this year, more than  $\frac{1}{2}$  million new patients who made about  $4\frac{1}{2}$  million visits to the out-patient clinic. Out of this latter number about one million visits to the constant wash treatment for acute ophthalmias and corneal diseases were made. This latter kind of treatment forms a very important part of the work of the Ophthalmic Hospitals.

#### THE OPHTHALMOLOGICAL SOCIETY OF EGYPT.

The annual meeting of this Society has been held on Friday, March 13, 1931 at Giza Memorial Ophthalmic Laboratory. 110 members attended and most of these were of the Medical Officers of the ophthalmic hospitals. The following are the titles of the most important communications delivered at the meeting :—

- (1) A visit to the ophthalmic centres of Vienna.
- (2) A few remarks about ocular tension during accommodation in normal and pathological patients.
- (3) Tattooing of the cornea with platinum chloride.
- (4) A posteric cataract extraction.
- (5) The present position of the problem of the etiology of trachoma.
- (6) Pathological similarity between trachoma and syphilis.
- (7) Limbic tumours among hospital patients.
- (8) Blue Sclerotic.
- (9) A case of rheumatic iritis.
- (10) A contribution to the study of exfoliation of the lens capsule or glauocoma capsule-cuticulare with anatomical preparations.
- (11) Report on some central affections of the fundus.
- (12) A case of Macular degeneration.
- (13) Congenital anomalies.
- (14) Two cases of detachment of retina treated by Gonin's operation.
- (15) A case of gumma of the lid lasting one year and ulcerating. Two cases of syphilitic periostitis of the orbit.
- (16) Two cases of Proptosis.
- (17) Some remarks on rectal narcosis with avertin (tribromethyl-alcohol).
- (18) The treatment of Syphilis in the eye and the indications of the different kinds of treatment.
- (19) Phenolaine in the treatment of Conceal Nebulae.

#### INTERESTING CASES IN 1930.

A monthly list of interesting cases seen at the various units of the Section is drawn up. About 691 cases have been recorded as interesting during 1930. The following list shows some such cases that are not frequently seen in every day's work in Egypt :—

- (1) Adeno-carcinoma of the meibomian gland.
- (2) Tuberculosis of the lacrymal gland.
- (3) Paralysis of oculo motor nerve, syphilitic.
- (4) Malignant tumour of lid: epithelioma.
- (5) Descending neuritis with syphilitic meningitis and fœil of softening of brain.
- (6) Ostioma of orbit.
- (7) Injury of forehead and globe causing retro-flexion of iris and traumatic cataract.
- (8) Microphthalmos with coloboma of iris and choroid.

- (9) Abscess of orbit.
- (10) Retention sebaceous cyst of caruncle.
- (11) Episcleritis due to pyorrhoea alveolaris.
- (12) Hyaline degeneration of conjunctiva and caruncle.
- (13) Erysipelas complicated with orbital cellulitis.
- (14) III nerve paralysis, syphilitic.
- (15) R. choroiditis with R. and L. retinal haemorrhages from arterio sclerosis.
- (16) Anophthalmos.
- (17) Diabetic and albumenuric neuro-retinitis.
- (18) Syphilitic dacryo-adenitis.
- (19) Retinitis pigmentosa (sine pigmento).
- (20) Traumatic dislocation of lens in A.C.
- (21) Rodent ulcer of lower lid and temple.
- (22) Ptosis and proptosis with optic atrophy due to basal meningitis, syphilitic.
- (23) Buphthalmos.
- (24) Gangrene of lid.
- (25) Arterio sclerosis with haemorrhage in perinuclear region.
- (26) Tarsitis syphilitica.
- (27) Spontaneous dislocation of lens in vitreous cavity.
- (28) Inclusion cyst of lower lid.
- (29) Haemangioma of lid.
- (30) Hysterical amblyopia.
- (31) Sclerosing keratitis.
- (32) Lid tumour, fibro angioma.
- (33) Fibroma of upper lid.
- (34) Herpes Zoster ophthalmicus.
- (35) Lid tumour (amyloid degeneration of tarsus)
- (36) L. pyramidal cataract.
- (37) Large round cell sarcoma of orbit.
- (38) Fly blown orbit.
- (39) Basal meningitis, specific, affecting 2nd., 5th. and 6th. nerves with L. primary optic atrophy.
- (40) Keratitis disciformis.
- (41) Lymphangioma of conj.
- (42) Total albinotic fundus.
- (43) Retinitis pigmentosa.
- (44) Streptothrix infection of conjunctiva.
- (45) Primary optic atrophy (through pituitary tumour).
- (46) Congenital partial ankyloblepharon.
- (47) Distichiasis 4 lids (congenital).
- (48) Congenital naevus of the face and conjunctiva.
- (49) Paralysis of L. external rectus (syphilitic).
- (50) Opaque nerve fibres.
- (51) Blue sclerotic (history of 2 fractures).
- (52) Cummatous lesion of the lid (Wassermann ++).
- (53) Ophthalmia neonatorum.
- (54) Glioma retina recurrent and inoperable.
- (55) R. Ophthalmoplegia externa and interna.
- (56) R. and L. optic neuritis due to inflammation of maxillary sinuses.

- (57) Sarcoma of palpebral conjunctiva.
- (58) Neuro-retinitis, diabetic.
- (59) Bilateral rudimentary globe with normally developed lids.
- (60) Lamellar cataract.
- (61) L. acute iritis, (specific).
- (62) Arterio-sclerotic fundus (specific).
- (63) Oedema of macula.
- (64) Old macular and recent perimacular retinal haemorrhage.
- (65) Thrombosis of central artery and arterio-sclerotic fundus.
- (66) Subconjunctival fibroma arising from L. Lateral rectus tendon (diagnosed pathologically).
- (67) Paralytic lagophthalmos after mastoid operation.
- (68) L. embolism of upper temporal artery.
- (69) Syphilitic optic neuritis.
- (70) Haemangioma of lid.
- (71) Limbus tumour, malignant, epithelioma.
- (72) Scleritis (probably due to pyorrhea and carious teeth).
- (73) Facial paralysis causing corneal ulcer.
- (74) Choroiditis (syphilitic).
- (75) R. and L. anophthalmos (apparent).
- (76) Cholestrine crystal in L. a.c. after old iritis.
- (77) Epithelial cyst of conjunctiva.
- (78) Spontaneous bilateral subluxated lens with 2nd. gl.
- (79) Syphilitic atrophy of inner layers of the choroid.
- (80) Congenital ptosis.
- (81) Complete luxation of globe with 5 centimetres length of optic nerve through a blow with a cow horn (Globe was attached with a shred of conjunctiva).
- (82) Ectopia pupillar et lentis.
- (83) Fibroma of limbus developing in site of old excised dermoid tumour.
- (84) Synchysis scintillans.
- (85) Lacrimal abscess and fistula due to forceps injury in delivery.
- (86) Subluxated lens and subretinal haemorrhage.
- (87) L. congenital double lower puncti and canaliculi.
- (88) Chronic primary glaucoma in a patient of 13 years age.
- (89) R. microphthalmos with congenital coloboma of iris, optic disc and choroid.
- (90) Cataracta punctata congenital.
- (91) Bilateral glioma retinae.
- (92) Idiosyncrasy to mercury preparations causing (acute eczema).
- (93) Primary optic atrophy after tabes.
- (94) Syphilitic periostitis of the orbital wall (Wassermann +++++).
- (95) Dermoid cyst of lid.
- (96) R. & L. capillary angioma of palp. conj.
- (97) Keratitis with lagophthalmos in a leprotic man.
- (98) Intra-ocular haemorrhage in a chronic glaucoma case.
- (99) Dislocated lacrimal gland.
- (100) Extensive chorio-retinitis due to congenital syphilis.
- (101) Glaucoma simplex age 18 years.
- (102) Enophthalmia with congenital closure of the palpebral fissure.
- (103) Irido-cyclitis due to chr. sinusitis.

- (104) Caterpillar hair in cornea with iritis nodosa.
- (105) Hole in macula after trauma.
- (106) Dendritis ulcer with secondary infiltrations.
- (107) Rt. remains of hyaloid artery at disc.
- (108) Lt. odema of macula, with deficient accommodation Rt. & Lt. Tay's choroiditis.
- (109) Post neuritic optic atrophy with implication of 5th and 6th nerves (Brain tumour at region of sphenoid).
- (110) Microcornea, myopic shadow, coloboma of iris and choroid.



TABLE I.—WORK DONE AT ALL OPHTHALMIC HOSPITALS DURING 1930.

|   |           |
|---|-----------|
| 1.—IN-PATIENTS : TOTAL NUMBER ... ... ... ... ... ... ... ...   | 20,136    |
| (Number of available beds 1,098)  |           |
| Number of diets issued ... ... ... ... ... ... ... ...  | 329,675   |
| 2.—OPERATIONS :—  |           |
| I. Major :—   |           |
| (a) Senile cataract ... ... ... ... ... ... ...   | 1,702     |
| (b) Soft cataract ... ... ... ... ... ...   | 448       |
| (c) Trichiasis or entropion ... ... ... ...   | 73,290    |
| (d) Other operations ... ... ... ...  | 17,704    |
| TOTAL ...   | 93,144    |
| II. Minor (including mechanical treatment of trachoma) ... ...  | 116,518   |
| GRAND TOTAL, major and minor operations ...   | 209,662   |
| 3.—OUT-PATIENTS :—  |           |
| I.—Incurable ... ... ... ... ...  | 3,695     |
| II.—Postponed ... ... ... ...   | 9,217     |
| III.—Tickets issued, i.e. new cases ... ... ...   | 526,406   |
| IV.—Old cases ... ... ...   | 3,810,744 |
| V.—Visits made by patients to hospital for treatment (equal I+II+III+IV)  | 4,350,062 |
| VI.—Average number of visits made to hospital by each patient under regular treatment (old cases + tickets issued) ÷ tickets issued. The factor of incurable cases is neglected ... ... ... | 8.24      |
| VII.—Discharges :—  |           |
| (a) Cured ... ... ... ...   | 157,227   |
| (b) Relieved ... ... ...  | 48,233    |
| (c) Incurable ... ... ...   | 1,429     |
| (d) Spontaneously ceased to attend after having attended only once ...  | 85,580    |
| (e) " " " " more than once  | 170,101   |
| VIII.—Trichiasis cases seen among new out-patients :—   |           |
| (a) No previous operation having been performed ... ...   | 58,578    |
| (b) Previous operation performed unsuccessfully (not at an Ophthalmic Hospital, but probably by some charlatan) ... ...   | 5,956     |
| IX.—Spectacles ordered ... ... ...  | 1,972     |
| X.—Constant wash cases (number of days' treatment) ... ...  | 785,479   |
| XI.—Ages of patients examined :—  | per cent  |
| Under one year ... ... ...  | 6.31      |
| From 1 to 5 years ... ...   | 33,223    |
| " 6 " 10 "  | 11.60     |
| " 11 " 15 "   | 53,154    |
| " 16 " 20 "   | 48,662    |
| " 21 " 25 "   | 45,079    |
| " 26 " 30 "   | 41,671    |
| " 31 " 35 "   | 43,300    |
| " 36 " 40 "   | 41,567    |
| " 41 " 45 "   | 36,181    |
| " 46 " 50 "   | 36,589    |
| " 51 " 55 "   | 27,797    |
| " 56 " 60 "   | 19,974    |
| " 61 " 65 "   | 15,215    |
| " 66 " 70 "   | 10,901    |
| Over 70 years ... ...   | 7,388     |
|   | 4,630     |
| TOTAL ...   | 526,406   |

N.B. -3. I. Incurable cases do not receive tickets, but are recognized as soon as seen by the surgeon as both incurable and devoid of surgical interest.

vii. (c) Incurable cases include those which are recognized as soon as seen by the surgeon as incurable but are given tickets for statistical or other purposes.

TABLE I.—WORK DONE AT ALL OPHTHALMIC HOSPITALS DURING 1930 (*continued*).3.— OUT-PATIENTS (*contd.*) :—

## XII.—Origin of patients :—

## Patients from :—

|  |               |         |
|--|---------------|---------|
| (a) Town in which hospital is situated ... ... ... ...   | 40·02         | 210,695 |
| (b) Markaz in which hospital is situated ... ... ... ... | 37·76         | 198,768 |
| (c) Other Markazes of same Mudīriya ... ... ... ...      | 13·38         | 70,439  |
| (d) Other Mudīriyas or Governorates ... ... ... ...      | 8·83          | 46,504  |
|  | TOTAL ... ... | 526,406 |

TABLE II.—LIST OF DISEASES.

*Ametropia* :—

|                               |       |
|-------------------------------|-------|
| Hypermetropia ... ... ... ... | 1,337 |
| Myopia ... ... ... ...        | 1,852 |
| Astigmatism ... ... ... ...   | 1,593 |
| Presbyopia... ... ... ...     | 433   |

*Conjunctiva* :—

|   |         |
|---|---------|
| Conjunctivitis, gonococcal ... ... ... ...                      | 22,706  |
| ,, Morax-Axenfeld ... ... ... ...                               | 3,046   |
| ,, Koch-Weeks ... ... ... ...                                   | 10,818  |
| ,, Pneumococcal ... ... ... ...                                 | 1,484   |
| ,, diphtheritic ... ... ... ...                                 |         |
| ,, membranous ... ... ... ...                                   | 2       |
| Other organisms or negative and unclassified ... ... ... ...    | 14,064  |
| Trachoma I ... ... ... ...                                      | 40,735  |
| ,, IIa ... ... ... ...  | 72,817  |
| ,, IIb' ... ... ... ...   | 8,121   |
| ,, IIb" ... ... ... ...   | 88      |
| ,, IIc ... ... ... ...  | 1,096   |
| ,, III including post-trachomatous degeneration ... ... ... ... | 323,712 |
| ,, IV ... ... ... ...   | 40,081  |
| Phlyctenule ... ... ... ...                                     | 14,449  |
| Pterygium ... ... ... ...                                       | 5,962   |
| Pinguecula ... ... ... ...                                      | 1,046   |
| Xerosis ... ... ... ...   | 1,178   |
| Symblepharon ... ... ... ...                                    | 344     |
| Dermoid ... ... ... ...   | 61      |

## Other conditions :—

|   |     |
|---|-----|
| Argyrosis ... ... ... ...                             | 644 |
| Colloid and hyaline degeneration... ... ... ...       | 75  |
| Hypertrophied caruncle ... ... ... ...                | 244 |
| Injuries (foreign bodies, burn, etc.) ... ... ... ... | 400 |
| Cyst ... ... ... ...                                  | 98  |
| Fibroma ... ... ... ...                               |     |
| Basal Celled Epithelioma ... ... ... ...              | 1   |

*Eyelids* :

|  |        |
|--|--------|
| Pediculus ciliaris ... ... ... ...       | 1,403  |
| Trichiasis and entropion ... ... ... ... | 70,420 |
| Distichiasis ... ... ... ...             | 170    |

TABLE II.—LIST OF DISEASES (*continued*).

TABLE II.—LIST OF DISEASES (*continued*).*Sclerotic* :—

|  |       |
|--|-------|
| Ciliary staphyloma ... ... ... ... ... | 1,891 |
| Episcleritis ... ... ... ... ...       | 14    |
| Injuries ... ... ... ... ...           | 69    |

*Choroid* :—

|  |     |
|--|-----|
| Coloboma ... ... ... ... ...                 | 10  |
| Rupture ... ... ... ... ...                  | 13  |
| Disseminated choroiditis ... ... ... ... ... | 12  |
| Chorido-retinitis ... ... ... ... ...        | 23  |
| Atrophy of choroid ... ... ... ... ...       | 100 |
| Tumours ... ... ... ... ...                  | 4   |
| Albinismus ... ... ... ... ...               | 14  |

*Retina* :—

|   |     |
|---|-----|
| Retinitis, Albuminuric and diabetic ... ... ... ... ...                   | 19  |
| ,, syphilitic ... ... ... ...   | 15  |
| ,, pigmentosa ... ... ... ...   | 47  |
| Detachment of retina ... ... ... ... ...                                  | 120 |
| Embolism and thrombosis of retinal vessels ... ... ... ...                | 3   |
| Glioma ... ... ... ... ...  | 11  |
| Other conditions ... ... ... ... ...                                      | 1   |
| Night blindness (in which retinitis pigmentosa is absent) ... ... ... ... | 84  |

*Optic Nerve* :—

|  |     |
|--|-----|
| Neuritis ... ... ... ... ...                     | 38  |
| Atrophy ( <i>see table III</i> ) ... ... ... ... | 170 |
| Opaque nerve fibres ... ... ... ...              | 17  |
| Other conditions ... ... ... ...                 | —   |

*Lens* :—

|                                  |       |
|----------------------------------|-------|
| Cataract, senile ... ... ... ... | 4,988 |
| ,, soft ... ... ... ...          | 433   |
| ,, traumatic ... ... ...         | 138   |
| ,, lamellar ... ... ...          | 45    |
| ,, anterior polar ...            | 1,882 |
| ,, posterior „                   | 54    |
| ,, dislocated, traumatic ...     | 201   |
| ,, „ operative ...               | 16    |
| ,, „ congenital ...              | 10    |
| Aphakia ... ... ... ...          | 1,557 |
| Secondary cataract ... ... ...   | 362   |
| Ectopia lentis ... ... ...       | 7     |

*Vitreous* :—

|                            |     |
|----------------------------|-----|
| Opacities ... ... ... ...  | 145 |
| Foreign bodies ... ... ... | 16  |

*Muscles* :—

|                                     |        |
|-------------------------------------|--------|
| Strabismus, alternating ... ... ... | 1,276  |
| ,, convergent ... ... ...           | 10,152 |
| ,, divergent ... ... ...            | 10,301 |
| Heterophoria ... ... ...            | 62     |
| Nystagmus ... ... ...               | 1,700  |
| Paralysis ... ... ...               | 48     |

TABLE II.—LIST OF DISEASES (*continued*).*Glaucoma* :—

|                        |  |       |
|------------------------|--|-------|
| Primary, acute ... ... | ... } Including absolute glaucoma caused by acute, | 50    |
| „ sub-acute ... ...    |  | 295   |
| „ chronic ... ...      |  | 6,380 |
| Secondary ... ...      |  | 8,185 |

*Globe* :—

|                     |         |        |
|---------------------|---------|--------|
| Shrunken globe      | ... ... | 13,875 |
| Buphthalmos         | ... ... | 45     |
| Exophthalmic goitre | ... ... | 8      |
| Panophthalmitis     | ... ... | 403    |
| Microphtalmos       | ... ... | 36     |
| Anophthalmos        | ... ... | 3      |
| Injury              | ... ... | 117    |

*Orbit* :—

|                   |         |     |
|-------------------|---------|-----|
| Tumours           | ... ... | 18  |
| Cellulitis        | ... ... | 23  |
| Tenonitis         | ... ... | 2   |
| Periostitis       | ... ... | 7   |
| Injuries          | ... ... | 11  |
| Cyst, frontal     | ... ... | 2   |
| „ ethmoidal       | ... ... | 4   |
| Contracted socket | ... ... | 120 |
| Fly-blown         | ... ... | 6   |

*Blind* :—

|               |         |        |
|---------------|---------|--------|
| In one eye... | ... ... | 36,021 |
| In both eyes* | ... ... | 9,513  |

\* Patients are accounted blind who cannot count fingers at one metre.

TABLE III.—CAUSES OF OPTIC ATROPHY.

### *Optic Atrophy:—*

A. (1) Primary :—

The spinal diseases causing the condition are :—

It may also be caused by :—

- (2) Compression of the optic chiasma or of the optic nerve by a tumour or injury by a projectile or bony fracture may produce optic atrophy of a primary type ... .

- ### (3) Retro-bulbar neuritis :—

The acute form causes atrophy of the optic nerve, primary in type not infrequently.

The chronic form more rarely.

Acute retro-bulbar neuritis. The causes are :-

|   |    |
|---|----|
| (a) Sepsis (dental, periostitis, middle ear, accessory sinuses) ... ... | 8  |
| (b) Acute fevers (including syphilis and rheumatism) ... ... ...        | 30 |
| (c) Intoxications (alcohol, lead) ... ... ... ... ...                   | —  |
| (d) Nervous diseases (disseminated sclerosis, acute myelitis) ...       | —  |

Chronic retro-bulbar neuritis may be caused by tobacco, alcohol, diabetes, iodoform, opium, etc.

### B. Post-neuritic :—

The causes of optic neuritis, all of which may be followed by post-neuritic atrophy, are as follows :—

|   |    |
|---|----|
| (a) Sepsis (dental, periostitis, middle ear, accessory sinuses) ... ... ... | 7  |
| (b) Acute fevers (including syphilis and rheumatism) ... ... ...            | 85 |
| (c) Intoxications (kidney disease and diabetes, alcohol, felixmas)...       | 8  |
| (d) Nervous diseases: Diss. sclerosis, G.P.I., epilepsy ... ... ...         | 2  |
| (e) Anæmia ... ... ... ... ...  | 5  |
| (f) Unknown ... ... ...   | 1  |

TABLE IV.—LIST OF OPERATIONS.

*Eyelids:*—

## For Trichiasis and entropion :—

|                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| Snellen's                | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 62,322 |
| Anagnostakis             | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 97     |
| Snellen-Anagnostakis     | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 381    |
| Canthoplasty             | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2,229  |
| Grafting mucous membrane | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 7,854  |
| Electrolysis (minor)     | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 3,217  |
| Excision of lash (minor) | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1,317  |
| Other operations         | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 407    |

## For Ectropion :—

|                                     |       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |       |
|-------------------------------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| Plastic                             | ..... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 29    |
| MacCallan's                         | ...   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 10    |
| Kenneth Scott's                     | ...   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | —     |
| Kuhnt's                             | ...   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 11    |
| Other operations                    | ...   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 49    |
| For ptosis                          | ...   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 22    |
| For symblepharon                    | ...   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 108   |
| For hordeolum and chalazion (minor) | ...   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 3,391 |
| Cyst removed                        | ...   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 138   |
| Wart excised (minor)                | ...   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 260   |
| Restitching wounds (minor)          | ...   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 88    |
| Opening abscesses (minor)           | ...   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1,061 |
| Various                             | ...   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 34    |

*Conjunctiva:*—

## For trachoma :—

|  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| Expression or Mechanical Treatment (minor) | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 59,018 |
| Combined excision of Heisrath              | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 546    |
| Post-trachomatous degeneration (minor)     | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 45,475 |
| Other operations { (minor)                 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 465    |
| { (major)                                  | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 297    |
| Pterygium                                  | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 3,413  |

*Cornea:*—

|                              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |       |
|------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| Foreign body removed (minor) | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1,085 |
| Säemisch's section           | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 196   |
| Cautery                      | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 248   |
| Various                      | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 11    |

*Iris:*—

|                                 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |       |
|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| Iridectomy for adherent leucoma | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 5,351 |
| “ visual                        | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 590   |
| “ for glaucoma                  | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1,101 |
| “ preliminary for cataract      | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 145   |
| Cystoid cicatrix                | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 17    |
| Division of anterior synechia   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 21    |
| Various                         | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 136   |

*Lacrimal Sac:*—

|                 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |       |
|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| Excision        | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1,935 |
| Various (minor) | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1,141 |

TOTAL, carried forward ... ... 204,216

TABLE IV.—LIST OF OPERATIONS (*continued*).

|   |                                    |         |
|---|------------------------------------|---------|
|   | TOTAL, brought forward ... ... ... | 204,216 |
| <i>Lens :—</i>  |                                    |         |
| For senile cataract :—                                  |                                    |         |
| Extraction with iridectomy ... ... ...                  |                                    |         |
| ,, after previous iridectomy...                         |                                    | 1,506   |
| For membrane after extraction: Discussion               |                                    | 196     |
|   |                                    | 737     |
| For soft cataract :—                                    |                                    |         |
| Extraction ... ... ...                                  |                                    | 21      |
| Discussion ... ... ...                                  |                                    | 81      |
| Curette evacuation ... ... ...                          |                                    | 330     |
| Paracentesis ... ... ...                                |                                    | 16      |
| For membrane after evacuation :—                        |                                    |         |
| Discussion ... ... ...                                  |                                    | 106     |
| Capsulotomy ... ... ...                                 |                                    | 10      |
| <i>Globe :—</i>   |                                    |         |
| Trephining of cornea-sclera with iridectomy ... ... ... |                                    | 1,144   |
| Trephining ... ... ...                                  |                                    | 18      |
| Excision ... ... ...                                    |                                    | 561     |
| Evisceration ... ... ...                                |                                    | 328     |
| Paracentesis ... ... ...                                |                                    | 132     |
| <i>Orbit :—</i>   |                                    |         |
| Exenteration ... ... ...                                |                                    | 4       |
| For tumour ... ... ...                                  |                                    | 32      |
| ,, dermoid ... ... ...                                  |                                    | 14      |
| ,, cellulitis ... ... ...                               |                                    | 12      |
| ,, cyst, frontal ... ... ...                            |                                    | —       |
| ,, „ ethmoidal... ... ...                               |                                    | —       |
| Tenotomy and advancement ... ... ...                    |                                    | 32      |
| Other major operations ... ... ...                      |                                    | 154     |
| Trial with magnet :—                                    |                                    |         |
| Positive ... ... ...                                    |                                    | 1       |
| Negative ... ... ...                                    |                                    | 11      |
|   | TOTAL ... ... ...                  | 209,662 |

TABLE V.—NUMBER OF NEW PATIENTS TREATED AND OPERATIONS PERFORMED  
AT ALL OPHTHALMIC HOSPITALS DURING 1930.

| HOSPITALS.                   | NUMBER OF PATIENTS. | HOSPITALS.                   | NUMBER OF OPERATIONS. |
|------------------------------|---------------------|------------------------------|-----------------------|
| No. 1, T.O.H. ....           | 45,514              | Rod el Farag ....            | 16,510                |
| Rod el Farag ....            | 43,665              | Giza ....                    | 11,420                |
| Giza ....                    | 32,039              | No. 1, T.O.H. ....           | 11,215                |
| Asyût ....                   | 19,152              | Tanta ....                   | 8,142                 |
| Tanta ....                   | 18,481              | No. 5, T.O.H. ....           | 7,978                 |
| Alexandria ....              | 18,243              | Benha ....                   | 7,817                 |
| Beni Suef ....               | 17,229              | Shibîn el Kôm ....           | 6,889                 |
| Faiyûm ....                  | 15,571              | Asyût ....                   | 6,858                 |
| No. 5, T.O.H. ....           | 14,391              | Sohâg ....                   | 5,936                 |
| Benha ....                   | 13,960              | Beni Suef ....               | 5,649                 |
| Port Said ....               | 13,270              | No. 6, T.O.H. ....           | 5,562                 |
| Shibîn el Kôm ....           | 13,143              | Alexandria ....              | 5,353                 |
| Zagazig ....                 | 12,676              | Fayûm ....                   | 5,138                 |
| Sohâg ....                   | 12,148              | No. 8, T.O.H. ....           | 4,921                 |
| Fikria ....                  | 12,072              | Zagazig ....                 | 4,611                 |
| Maghagha ....                | 10,406              | No. 10, T.O.H. ....          | 4,464                 |
| Minya ....                   | 10,147              | Maghagha ....                | 4,321                 |
| Damanhûr ....                | 10,097              | No. 7, T.O.H. ....           | 4,282                 |
| No. 6, T.O.H. ....           | 9,600               | El Fekria ....               | 4,240                 |
| Mallawi ....                 | 9,523               | No. 11, T.O.H. ....          | 4,239                 |
| No. 10, T.O.H. ....          | 9,462               | No. 4, T.O.H. ....           | 4,129                 |
| Mansûra ....                 | 9,459               | Mansûra ....                 | 3,944                 |
| No. 8, T.O.H. ....           | 9,455               | Minya ....                   | 3,927                 |
| No. 11, T.O.H. ....          | 9,371               | Ashmoun ....                 | 3,699                 |
| Mahalla el Kubra ....        | 8,741               | Damanhûr ....                | 3,467                 |
| Santa ....                   | 7,997               | No. 9, T.O.H. ....           | 3,370                 |
| Suez ....                    | 7,819               | Port Said ....               | 3,295                 |
| Mit Ghamr ....               | 7,615               | Qena ....                    | 3,288                 |
| Qena ....                    | 7,188               | No. 3, T.O.H. ....           | 3,239                 |
| Asyût, P.C., T.O.H. ....     | 6,948               | Gharbia P.C., T.O.H. ....    | 3,215                 |
| Asswan ....                  | 6,937               | Mahalla el Kubra ....        | 3,162                 |
| No. 7, T.O.H. ....           | 6,807               | Kafr el Zaiyât ....          | 3,096                 |
| Gharbia, P.C., T.O.H. ....   | 6,736               | Asyût, P.C., T.O.H. ....     | 2,971                 |
| Damietta ....                | 6,501               | Mallawi ....                 | 2,894                 |
| Ashmûn ....                  | 6,402               | No. 2, T.O.H. ....           | 2,841                 |
| No. 4, T.O.H. ....           | 6,249               | Aswan ....                   | 2,782                 |
| No. 9, T.O.H. ....           | 6,215               | Minûf ....                   | 2,740                 |
| Taieba ....                  | 6,199               | Mit Ghamr ....               | 2,722                 |
| Kafr el Zaiyât ....          | 6,093               | Santa ....                   | 2,667                 |
| Esna ....                    | 6,090               | Suez ....                    | 2,343                 |
| No. 3, T.O.H. ....           | 6,036               | Esna ....                    | 2,234                 |
| Daqahliya, P.C., T.O.H. .... | 5,706               | Daqahliya, P.C., T.O.H. .... | 2,120                 |
| No. 3, T.O.H. ....           | 4,931               | Damietta ....                | 1,986                 |
| Minûf ....                   | 4,621               | Barrîm ....                  | 1,833                 |
| Barrîm ....                  | 3,650               | Taieba ....                  | 1,497                 |
| Disouk ....                  | 1,845               | Disouk ....                  | 656                   |

Number of working months :—

|   | Months. | Days. |
|---|---------|-------|
| Disouk (opened on September 29th 1930) .... | ... ... | 3 2   |
| Assiut P.C., T.O.H. ....                    | ... ... | 10 25 |
| No. 3, T.O.H. ....                          | ... ... | 11 1  |
| ,, 2, T.O.H. ....                           | ... ... | 11 3  |
| ,, 6, T.O.H. ....                           | ... ... | 11 9  |
| ,, 1, T.O.H. ....                           | ... ... | 11 10 |
| Gharbia P.C., T.O.H. ....                   | ... ... | 11 10 |
| No. 8, T.O.H. ....                          | ... ... | 11 16 |
| ,, 10, T.O.H. ....                          | ... ... | 11 16 |
| ,, 5, T.O.H. ....                           | ... ... | 11 17 |
| ,, 7, T.O.H. ....                           | ... ... | 11 18 |
| ,, 9, T.O.H. ....                           | ... ... | 11 18 |
| ,, 4, T.O.H. ....                           | ... ... | 11 19 |
| Daqahliya, P.C., T.O.H. ....                | ... ... | 11 21 |
| Other Ophthalmic Hospitals ...              | ... ... | 12 —  |

TABLE VI.—AVERAGE NUMBER OF OPERATIONS PER MONTH AT ALL  
OPHTHALMIC HOSPITALS DURING THE YEAR 1930.

| MAJOR OPERATIONS.       |     |     |     |     |     | MINOR OPERATIONS. |                         |     |     |     |     |     |
|-------------------------|-----|-----|-----|-----|-----|-------------------|-------------------------|-----|-----|-----|-----|-----|
| HOSPITALS.              |     |     |     |     |     | No.               | HOSPITALS.              |     |     |     |     |     |
| Rod el Farag            | ... | ... | ... | ... | ... | 581               | Rod el Farag            | ... | ... | ... | ... | 795 |
| No. 1, T.O.H.           | ... | ... | ... | ... | ... | 401               | Gîza                    | ... | ... | ... | ... | 578 |
| Gîza                    | ... | ... | ... | ... | ... | 373               | No. 1, T.O.H.           | ... | ... | ... | ... | 552 |
| No. 5, T.O.H.           | ... | ... | ... | ... | ... | 348               | Tanta                   | ... | ... | ... | ... | 383 |
| Asyût                   | ... | ... | ... | ... | ... | 302               | Benha                   | ... | ... | ... | ... | 379 |
| Tanta                   | ... | ... | ... | ... | ... | 295               | Shibîn el Kôm           | ... | ... | ... | ... | 374 |
| Sohâg                   | ... | ... | ... | ... | ... | 285               | No. 5, T.O.H.           | ... | ... | ... | ... | 342 |
| Benha                   | ... | ... | ... | ... | ... | 272               | No. 6, T.O.H.           | ... | ... | ... | ... | 318 |
| No. 11, T.O.H.          | ... | ... | ... | ... | ... | 231               | Beni Suef               | ... | ... | ... | ... | 278 |
| No. 10, T.O.H.          | ... | ... | ... | ... | ... | 221               | Alexandria              | ... | ... | ... | ... | 276 |
| Faiyûm                  | ... | ... | ... | ... | ... | 218               | Asyût                   | ... | ... | ... | ... | 269 |
| Shibîn el Kôm           | ... | ... | ... | ... | ... | 200               | No. 8, T.O.H.           | ... | ... | ... | ... | 253 |
| Zagazig                 | ... | ... | ... | ... | ... | 197               | Maghagha                | ... | ... | ... | ... | 224 |
| Beni Suef               | ... | ... | ... | ... | ... | 193               | No. 4, T.O.H.           | ... | ... | ... | ... | 222 |
| Mansûra                 | ... | ... | ... | ... | ... | 189               | No. 7, T.O.H.           | ... | ... | ... | ... | 220 |
| No. 8, T.O.H.           | ... | ... | ... | ... | ... | 174               | Fayoum                  | ... | ... | ... | ... | 210 |
| No. 6, T.O.H.           | ... | ... | ... | ... | ... | 174               | Sohâg                   | ... | ... | ... | ... | 209 |
| Alexandria              | ... | ... | ... | ... | ... | 170               | Ashmûn                  | ... | ... | ... | ... | 209 |
| El Fekria               | ... | ... | ... | ... | ... | 160               | Minya                   | ... | ... | ... | ... | 195 |
| Asyût, P.C., T.O.H.     | ... | ... | ... | ... | ... | 160               | El Fekria               | ... | ... | ... | ... | 193 |
| No. 7, T.O.H.           | ... | ... | ... | ... | ... | 149               | Damanhûr                | ... | ... | ... | ... | 189 |
| No. 9, T.O.H.           | ... | ... | ... | ... | ... | 141               | Port Said               | ... | ... | ... | ... | 189 |
| Maghagha                | ... | ... | ... | ... | ... | 136               | Zagazig                 | ... | ... | ... | ... | 187 |
| Gharbia, P.C., T.O.H.   | ... | ... | ... | ... | ... | 136               | No. 10, T.O.H.          | ... | ... | ... | ... | 166 |
| No. 3, T.O.H.           | ... | ... | ... | ... | ... | 134               | No. 3, T.O.H.           | ... | ... | ... | ... | 160 |
| Qena                    | ... | ... | ... | ... | ... | 134               | Kafr el Zayât           | ... | ... | ... | ... | 155 |
| No. 4, T.O.H.           | ... | ... | ... | ... | ... | 133               | No. 9, T.O.H.           | ... | ... | ... | ... | 149 |
| Minya                   | ... | ... | ... | ... | ... | 132               | Gharbia, P.C., T.O.H.   | ... | ... | ... | ... | 148 |
| Mallawi                 | ... | ... | ... | ... | ... | 130               | Suez                    | ... | ... | ... | ... | 146 |
| Mahalla el Kubra        | ... | ... | ... | ... | ... | 118               | Mahalla el Kubra        | ... | ... | ... | ... | 145 |
| No. 2, T.O.H.           | ... | ... | ... | ... | ... | 117               | Asswan                  | ... | ... | ... | ... | 142 |
| Santa                   | ... | ... | ... | ... | ... | 115               | Qena                    | ... | ... | ... | ... | 140 |
| Mit Ghamr               | ... | ... | ... | ... | ... | 114               | No. 2, T.O.H.           | ... | ... | ... | ... | 139 |
| Damanhûr                | ... | ... | ... | ... | ... | 108               | Mansûra                 | ... | ... | ... | ... | 139 |
| Esna                    | ... | ... | ... | ... | ... | 107               | Minûf                   | ... | ... | ... | ... | 133 |
| Kafr el Zaiyât          | ... | ... | ... | ... | ... | 103               | Disouk                  | ... | ... | ... | ... | 132 |
| Ashmûn                  | ... | ... | ... | ... | ... | 99                | No. 11, T.O.H.          | ... | ... | ... | ... | 122 |
| Minûf                   | ... | ... | ... | ... | ... | 95                | Mit Ghamr               | ... | ... | ... | ... | 113 |
| Asswân                  | ... | ... | ... | ... | ... | 90                | Asyût, P.C., T.O.H.     | ... | ... | ... | ... | 113 |
| Port Said               | ... | ... | ... | ... | ... | 86                | Mallawi                 | ... | ... | ... | ... | 111 |
| Disouk                  | ... | ... | ... | ... | ... | 82                | Damietta                | ... | ... | ... | ... | 108 |
| Daqahliya, P.C., T.O.H. | ... | ... | ... | ... | ... | 81                | Santa                   | ... | ... | ... | ... | 107 |
| Barrîm                  | ... | ... | ... | ... | ... | 77                | Daqahliya, P.C., T.O.H. | ... | ... | ... | ... | 100 |
| Taieba                  | ... | ... | ... | ... | ... | 58                | Esna                    | ... | ... | ... | ... | 79  |
| Damietta                | ... | ... | ... | ... | ... | 57                | Barrîm                  | ... | ... | ... | ... | 75  |
| Suez                    | ... | ... | ... | ... | ... | 49                | Taieba                  | ... | ... | ... | ... | 67  |

TABLE VII.—NEW PATIENTS TREATED ACCORDING TO THE AGE  
AT WHICH THEY SOUGHT TREATMENT.

| AGE.                           | No. OF PATIENTS. |
|--------------------------------|------------------|
| Under one year ... ... ... ... | 33,223           |
| From 1 to 5 years ... ... ...  | 61,075           |
| " 6 to 10 " ... ... ...        | 53,154           |
| " 11 to 15 " ... ... ...       | 48,662           |
| " 16 to 20 " ... ... ...       | 45,079           |
| " 21 to 25 " ... ... ...       | 41,671           |
| " 26 to 30 " ... ... ...       | 33,300           |
| " 31 to 35 " ... ... ...       | 41,567           |
| " 36 to 40 " ... ... ...       | 36,181           |
| " 41 to 45 " ... ... ...       | 36,589           |
| " 46 to 50 " ... ... ...       | 27,797           |
| " 51 to 55 " ... ... ...       | 19,974           |
| " 56 to 60 " ... ... ...       | 15,215           |
| " 61 to 65 " ... ... ...       | 10,901           |
| " 66 to 70 " ... ... ...       | 7,388            |
| Over 70 years ... ... ...      | 4,630            |
| TOTAL ... ...                  | 526,406          |

TABLE VIII.—NEW PATIENTS TREATED PER MONTH.

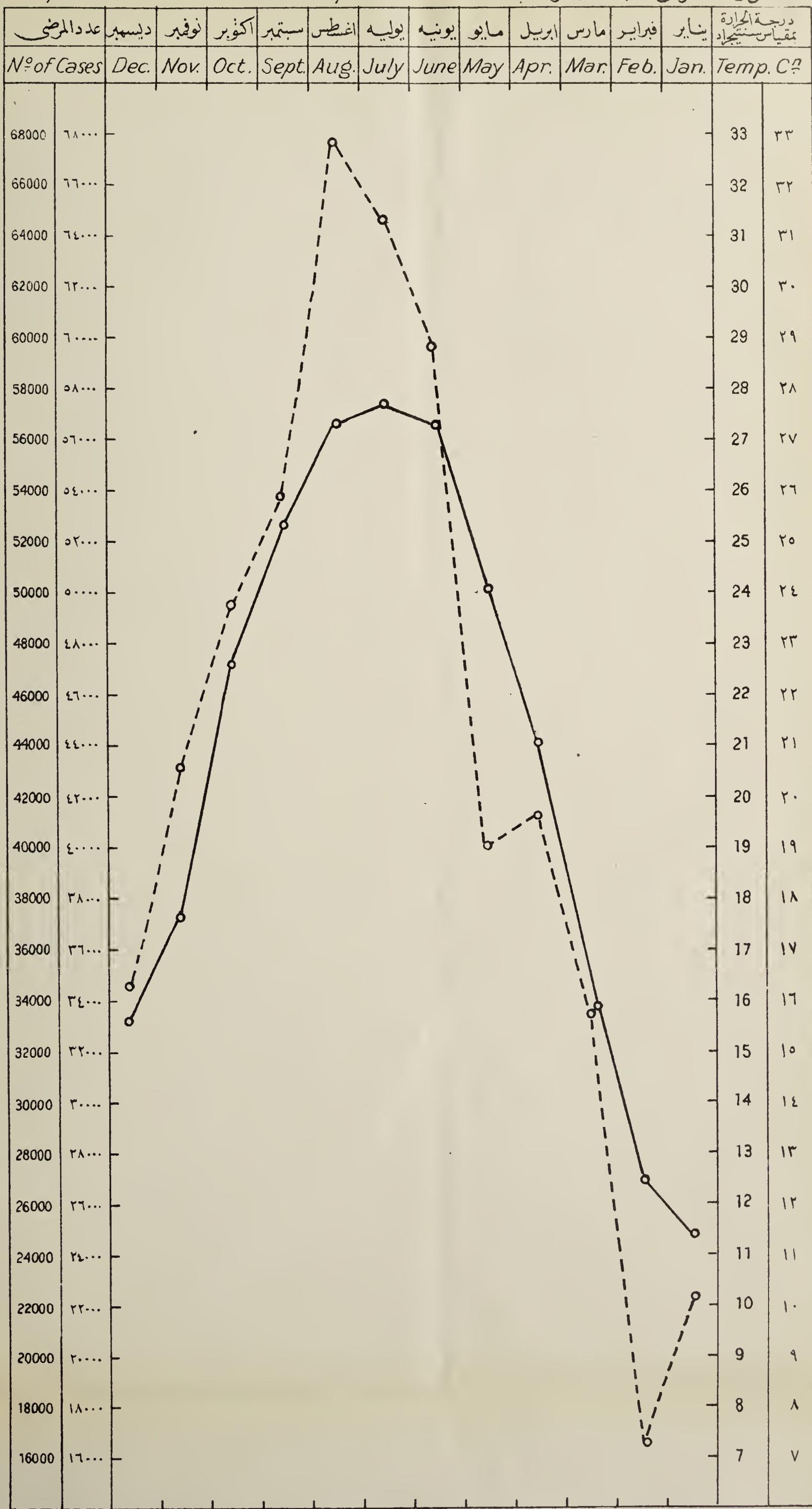
| MONTHS.                   | No. OF PATIENTS. |
|---------------------------|------------------|
| January ... ... ... ...   | 22,161           |
| February ... ... ... ...  | 16,345           |
| March ... ... ... ...     | 33,325           |
| April ... ... ... ...     | 41,068           |
| May ... ... ... ...       | 39,912           |
| June ... ... ... ...      | 59,838           |
| July ... ... ... ...      | 64,771           |
| August ... ... ... ...    | 87,814           |
| September ... ... ... ... | 53,822           |
| October ... ... ... ...   | 49,552           |
| November ... ... ... ...  | 43,104           |
| December ... ... ... ...  | 34,694           |
| TOTAL ... ... ...         | 526,406          |



جدول رقم ٩

TABLE IX

الطقس و عدد المرضى الذين عوْجوا



— Average temperature in degrees centigrade

--- New patients treated per month.

Rep. by the S. of E. 1931 (31/616)

— درجة الحرارة بمقاييس ستينجراد

--- المرضى المستجدون الذين عوْجوا شهرياً



TABLE X.—AVERAGE TEMPERATURE.

The average temperature was arrived at by taking one place in Lower Egypt (Gemeiza), one place in Cairo (Gîza), and one place in Upper Egypt (Asyût) and obtaining an average figure from the mean temperature at each place on each month. This is shown in appended table, the reading being in degrees centigrade.

| MONTH.        | GEMEIZA. | GIZA. | ASYÜT. | AVERAGE. |
|---------------|----------|-------|--------|----------|
| January ...   | 10·8     | 11·2  | 11·8   | 11·3     |
| February ...  | 11·5     | 12·6  | 13·2   | 12·4     |
| March ...     | 14·6     | 15·8  | 17·0   | 15·8     |
| April ...     | 18·6     | 20·7  | 22·8   | 21·0     |
| May ...       | 22·0     | 23·4  | 26·5   | 24·0     |
| June ...      | 25·5     | 26·9  | 29·6   | 27·3     |
| July ...      | 26·4     | 27·4  | 29·4   | 27·7     |
| August ...    | 25·9     | 27·0  | 29·0   | 27·3     |
| September ... | 24·5     | 25·2  | 26·4   | 26·4     |
| October ...   | 21·6     | 22·2  | 23·9   | 22·6     |
| November ...  | 17·0     | 17·5  | 18·2   | 17·6     |
| December ...  | 15·1     | 16·4  | 16·2   | 15·6     |

TABLE XI.—SYNOPSIS OF WORK AT ALL OPHTHALMIC HOSPITALS SINCE 1927.

|                                   | 1927 | 1928      | 1929      | 1930      |
|-----------------------------------|------|-----------|-----------|-----------|
| <i>Hospitals in existence :—</i>  |      |           |           |           |
| Travelling                        | ...  | 10        | 14        | 14        |
| Permanent                         | ...  | 26        | 27        | 31        |
| New patients treated              | ...  | 347,742   | 381,790   | 461,481   |
| Total attendances of out-patients | ...  | 3,239,159 | 3,434,425 | 4,242,241 |
| Operations performed              | ...  | 158,929   | 171,487   | 195,942   |
| In-patients                       | ...  | 10,810    | 12,967    | 16,890    |
| <i>Details :—</i>                 |      |           |           |           |
| Patients examined                 | ...  | 361,577   | 401,530   | 479,932   |
| Patients regularly treated        | ...  | 347,742   | 381,790   | 461,481   |
| Incurable cases                   | ...  | 6,115     | 5,224     | 5,715     |
| Blind in one eye                  | ...  | 26,591    | 28,816    | 31,893    |
| both eyes                         | ...  | 8,689     | 8,592     | 8,897     |
| Trichiasis cases examined         | ...  | 53,794    | 56,028    | 65,756    |
| eyes operated on and cured        | ...  | 60,878    | 62,255    | 68,105    |

TABLE XII.—CAUSES OF BLINDNESS.

TABLE XIII.—TOTAL PERCENTAGE OF BLINDNESS IN ONE OR BOTH EYES.

|   | 1927  | 1928  | 1929  | 1930      |
|---|-------|-------|-------|-----------|
|   |       |       |       | Per Cent. |
| <i>Permanent Ophthalmic Hospitals :—</i>  |       |       |       |           |
| Tanta ...                                 | 6.32  | 7.50  | 5.93  | 5.79      |
| Asyût ...                                 | 8.92  | 9.28  | 9.66  | 7.71      |
| Mansûra ...                               | 15.35 | 14.66 | 10.52 | 11.45     |
| Beni Suef ...                             | 11.58 | 11.30 | 12.21 | 11.74     |
| Zagazig ...                               | 6.51  | 4.49  | 9.47  | 9.37      |
| Damanhûr ...                              | 8.53  | 7.16  | 7.49  | 6.86      |
| Shibîn el Kôm ...                         | 8.67  | 8.20  | 4.99  | 4.40      |
| Sohâg ...                                 | 18.72 | 17.50 | 16.27 | 15.86     |
| Minya ...                                 | 14.67 | 21.03 | 17.90 | 17.23     |
| Faiyûm ...                                | 11.35 | 11.00 | 10.39 | 10.09     |
| Benha ...                                 | 7.24  | 6.51  | 5.51  | 9.19      |
| Alexandria ...                            | 5.67  | 4.99  | 5.07  | 4.52      |
| Port Said ...                             | 2.52  | 3.64  | 4.23  | 3.43      |
| Qena ...                                  | 15.65 | 14.10 | 15.93 | 14.69     |
| Damietta ...                              | 4.00  | 4.66  | 4.65  | 3.75      |
| Gîza ...                                  | 8.21  | 8.10  | 6.66  | 6.73      |
| Suez ...                                  | 4.10  | 4.04  | 4.23  | 4.72      |
| Barrîm ...                                | 7.12  | 7.35  | 7.58  | 5.61      |
| Mallawi ...                               | 7.67  | 9.68  | 3.17  | 3.53      |
| Mit Ghamr ...                             | 10.27 | 9.46  | 6.33  | 5.38      |
| Maghagha ...                              | 17.38 | 12.04 | 8.40  | 7.84      |
| El Fikria ...                             | —     | 9.60  | 9.29  | 6.37      |
| Asswan ...                                | —     | —     | 9.99  | 7.07      |
| Rôd el Farag ...                          | —     | —     | 8.20  | 8.14      |
| 'Taieba ...                               | —     | —     | 5.45  | 5.40      |
| Esna ...                                  | —     | —     | 11.56 | 14.63     |
| Disouk ...                                | —     | —     | —     | 12.69     |
| Mahalla el Kubra ...                      | 8.74  | 8.37  | 7.42  | 7.13      |
| Kafr el Zaiyât ...                        | 6.99  | 5.95  | 5.45  | 5.08      |
| Santa ...                                 | 8.28  | 8.98  | 4.27  | 4.54      |
| Minûf ...                                 | 6.88  | 5.54  | 7.35  | 6.97      |
| Ashmoun ...                               | 8.55  | 8.40  | 6.94  | 8.11      |
| <i>Travelling Ophthalmic Hospitals :—</i> |       |       |       |           |
| No. 1. Travelling :—                      |       |       |       |           |
| Rôd el Farag ...                          | 11.12 | —     | —     | —         |
| Abbassia ...                              | 11.02 | 10.72 | 10.66 | 10.57     |
| Kalaa ...                                 | —     | —     | —     | 10.72     |
| No. 2. Travelling :—                      |       |       |       |           |
| Shubrakhît ...                            | 16.76 | —     | —     | —         |
| Rasheed ...                               | 6.45  | —     | —     | —         |
| Rahmania ...                              | 2.61  | —     | —     | —         |
| Teh El Baroud ...                         | —     | 0.44  | 8.00  | —         |
| Abu Hommos ...                            | —     | 4.17  | 14.26 | —         |
| Kafr el Dawar ...                         | —     | —     | —     | 6.54      |
| No. 3. Travelling :—                      |       |       |       |           |
| Asswân ...                                | 10.71 | 13.02 | —     | —         |
| Idfû ...                                  | —     | 7.24  | 14.18 | 13.32     |
| Kom Ombo ...                              | 10.02 | 9.32  | 11.77 | 14.02     |
| No. 4. Travelling :—                      |       |       |       |           |
| Ismailia ...                              | 8.70  | —     | —     | —         |
| Kafr Sakr ...                             | 8.32  | 12.23 | —     | —         |
| Minia El Kamh ...                         | —     | 7.36  | 10.20 | —         |
| Hihia ...                                 | —     | —     | 9.14  | —         |
| Abu Kebir ...                             | —     | —     | 14.90 | 10.40     |
| Fakous ...                                | —     | —     | —     | 10.08     |

TABLE XIII (*contd.*).—TOTAL PERCENTAGE OF BLINDNESS IN ONE OR BOTH EYES.

|                                | 1927  | 1928  | 1929  | 1930      |
|--------------------------------|-------|-------|-------|-----------|
|                                |       |       |       | Per Cent. |
| No. 5. Travelling:—            |       |       |       |           |
| Girga ... ... ... ... ...      | 15.20 | —     | 7.88  | 10.81     |
| Tahta ... ... ... ... ...      | 13.47 | 14.15 | —     | 13.06     |
| Baliana ... ... ... ... ...    | —     | 11.53 | —     | —         |
| Akhmim ... ... ... ... ...     | —     | 7.80  | 10.00 | —         |
| No. 6. Travelling:—            |       |       |       |           |
| Sherbin ... ... ... ... ...    | 14.70 | —     | —     | —         |
| Quesna ... ... ... ... ...     | 14.94 | 9.90  | —     | 9.88      |
| Tala ... ... ... ... ...       | —     | 13.80 | 8.94  | —         |
| Berket El Sab' ... ... ... ... | —     | —     | —     | 7.89      |
| No. 7. Travelling:—            |       |       |       |           |
| Itsa (Fayoum) ... ... ... ...  | 14.51 | —     | —     | —         |
| Biba ... ... ... ... ...       | 9.97  | 6.78  | —     | 6.49      |
| Sinnouris ... ... ... ... ...  | —     | 5.02  | 13.73 | —         |
| El Wasta ... ... ... ... ...   | —     | —     | 6.13  | —         |
| Abu Ksah ... ... ... ... ...   | —     | —     | 6.82  | 7.96      |
| No. 8. Travelling:—            |       |       |       |           |
| Samalut ... ... ... ... ...    | —     | 12.90 | —     | 8.99      |
| El Fashn ... ... ... ... ...   | —     | 11.78 | 10.86 | —         |
| Matay ... ... ... ... ...      | —     | —     | 10.31 | 10.17     |
| No. 9. Travelling:—            |       |       |       |           |
| Embaba ... ... ... ... ...     | —     | 12.30 | 9.22  | —         |
| Ayat ... ... ... ... ...       | —     | —     | 5.28  | 6.50      |
| El Saff ... ... ... ... ...    | —     | —     | —     | 6.57      |
| No. 10. Travelling:—           |       |       |       |           |
| Nag' Hammadi ... ... ... ...   | —     | 9.00  | 10.84 | —         |
| Kous ... ... ... ... ...       | —     | —     | 16.30 | —         |
| Dishna ... ... ... ... ...     | —     | —     | 11.71 | 16.41     |
| Luxor ... ... ... ... ...      | —     | —     | —     | 13.60     |
| No. 11. Travelling:—           |       |       |       |           |
| Shebin El Qanater ... ... ...  | —     | 11.96 | 9.01  | —         |
| Toukh ... ... ... ... ...      | —     | —     | 8.48  | 7.50      |
| Asyût Provincial Council:—     |       |       |       |           |
| Manfalût ... ... ... ... ...   | 11.20 | —     | 11.16 | 10.17     |
| Dairût ... ... ... ... ...     | 9.60  | —     | —     | 9.55      |
| Abnûb ... ... ... ... ...      | —     | —     | 10.80 | —         |
| Abu Tîg ... ... ... ... ...    | 11.72 | —     | 13.04 | —         |
| Badâri ... ... ... ... ...     | —     | 11.90 | —     | 11.66     |
| Deir Moas ... ... ... ... ...  | —     | 13.16 | —     | 10.07     |
| Daqahliya Provincial Council:— |       |       |       |           |
| Matarîya ... ... ... ... ...   | 9.06  | —     | —     | —         |
| Dikirnis ... ... ... ... ...   | 14.35 | —     | —     | —         |
| Fâriskûr ... ... ... ... ...   | 11.51 | 7.90  | —     | —         |
| Aga ... ... ... ... ...        | 5.19  | 11.85 | —     | 6.82      |
| Simbillâwein ... ... ... ...   | —     | 12.50 | 8.40  | —         |
| Manzala ... ... ... ... ...    | —     | —     | 7.70  | —         |
| Diarb Nigm ... ... ... ... ... | —     | —     | 7.75  | 7.63      |
| Gharbia Provincial Council:—   |       |       |       |           |
| Kafr El Sheikh ... ... ... ... | 10.84 | —     | —     | —         |
| Zifta ... ... ... ... ...      | —     | 9.69  | —     | —         |
| Shirbin ... ... ... ... ...    | —     | 10.00 | —     | —         |
| Fowa ... ... ... ... ...       | —     | —     | 6.10  | —         |
| Basioun ... ... ... ... ...    | —     | —     | 6.25  | 5.90      |
| Belkas ... ... ... ... ...     | —     | —     | —     | 5.77      |
| Kallin ... ... ... ... ...     | —     | —     | —     | 5.81      |

N.B.—It is noticed in this table that the percentage of blindness varies in one hospital in different years. This is most probably due to several reasons, the important of which are: that the same blind patient might have visited the same hospital several times, that the patient might have visited several hospitals, that the surgeons of the same hospital are changed and also due to the amount of care exercised in booking these cases.

TABLE XIV.—BLINDNESS AMONG OUT-PATIENTS SINCE 1909.

| YEAR.     | TOTAL<br>NUMBER<br>OF PATIENTS<br>EXAMINED. | ONE EYE. |           | BOTH EYES. |           | AND BOTH EYES. |           |
|-----------|---|----------|-----------|------------|-----------|----------------|-----------|
|           |   | Number.  | Per Cent. | Number     | Per Cent. | Number.        | Per Cent. |
| 1909      | 22,373                                      | 2,116    | 9·4       | 1,385      | 6·1       | 3,501          | 15·6      |
| 1910      | 25,506                                      | 2,438    | 9·5       | 2,010      | 7·8       | 4,448          | 17·4      |
| 1911      | 31,274                                      | 3,196    | 10·2      | 2,811      | 8·9       | 6,007          | 19·2      |
| 1912      | 43,668                                      | 4,115    | 9·4       | 2,824      | 6·4       | 6,939          | 15·2      |
| 1913      | 62,233                                      | 5,360    | 8·6       | 3,878      | 6·2       | 9,238          | 14·8      |
| 1914      | 75,398                                      | 6,425    | 8·5       | 3,591      | 4·7       | 10,016         | 13·2      |
| 1915      | 71,930                                      | 5,637    | 7·8       | 2,992      | 4·2       | 8,629          | 12·0      |
| 1916      | 94,447                                      | 7,042    | 7·4       | 3,504      | 3·7       | 10,546         | 11·2      |
| 1917      | 100,410                                     | 9,385    | 9·3       | 4,611      | 4·6       | 13,996         | 13·9      |
| 1918      | 90,668                                      | 8,969    | 9·9       | 4,261      | 4·7       | 13,230         | 14·6      |
| 1919      | 83,577                                      | 8,537    | 10·2      | 4,278      | 5·1       | 12,815         | 15·3      |
| 1920      | 108,113                                     | 9,833    | 9·1       | 5,154      | 4·7       | 14,987         | 13·8      |
| 1921      | 127,223                                     | 10,566   | 8·3       | 5,053      | 3·9       | 15,619         | 12·2      |
| 1922      | 147,492                                     | 12,524   | 8·5       | 4,850      | 3·3       | 17,374         | 11·8      |
| 1923      | 174,004                                     | 14,394   | 8·3       | 5,146      | 2·9       | 19,540         | 11·2      |
| 1924      | 206,342                                     | 16,535   | 8·0       | 5,716      | 2·8       | 22,251         | 10·8      |
| 1925      | 246,771                                     | 19,422   | 7·9       | 6,137      | 2·5       | 25,569         | 10·4      |
| 1926      | 283,602                                     | 21,979   | 7·7       | 6,702      | 2·6       | 88,681         | 10·1      |
| 1927      | 361,577                                     | 26,591   | 7·4       | 8,689      | 2·4       | 35,280         | 9·8       |
| 1928      | 401,530                                     | 28,816   | 7·2       | 8,592      | 2·1       | 37,408         | 9·3       |
| 1929      | 479,932                                     | 31,893   | 6·6       | 8,697      | 1·8       | 40,590         | 8·4       |
| 1930      | 539,318                                     | 36,021   | 6·6       | 9,513      | 1·7       | 45,534         | 8·4       |
| TOTAL ... | 3,777,388                                   | 291,794  | 7·7       | 110,394    | 2·9       | 402,188        | 10·6      |

*N.B.*—The definition of blindness adopted here is that proposed by Troussseau, that is to say, inability to count fingers held up at a distance of one metre.

TABLE XV.—YEARLY PERCENTAGE OF BLINDNESS AMONG OPHTHALMIC HOSPITALS PATIENTS SINCE THE YEAR 1909.

| YEAR. | Per Cent of Blindness<br>in one or both Eyes. | YEAR. | Per Cent of Blindness<br>in one or both Eyes. |
|-------|---|-------|---|
| 1909  | 15.6  | 1920  | 13.8  |
| 1910  | 17.4  | 1921  | 12.2  |
| 1911  | 19.2  | 1922  | 11.8  |
| 1912  | 15.2  | 1923  | 11.2  |
| 1913  | 14.8  | 1924  | 10.8  |
| 1914  | 13.2  | 1925  | 10.4  |
| 1915  | 12.0  | 1926  | 10.1  |
| 1916  | 11.2  | 1927  | 9.8   |
| 1917  | 13.9  | 1928  | 9.3   |
| 1918  | 14.6  | 1929  | 8.4   |
| 1919  | 15.3  | 1930  | 8.4   |

*N.B.*—The definition of blindness adopted here is that proposed by Troussseau, that is to say, inability to count fingers held up at a distance of one metre.

TABLE XVI.—PRIMARY GLAUCOMA.

\* Including 3,781 absolute monocular and binocular

TABLE XVII.—PATHOLOGICAL REPORT.

(Kindly supplied by the Director of the Memorial Ophthalmic Laboratory, Giza).

Tissues hardened, Sections cut and examined Microscopically during 1930.

TABLE XVII.—PATHOLOGICAL REPORT (*continued*).

|  |                                 |                               |     |
|--|---------------------------------|-------------------------------|-----|
|  |                                 | TOTAL, brought forward... ... | 293 |
| <i>Lacrimal Sac :—</i>                 |                                 |                               |     |
| Inflammation                           | ... ... ... ... ... ... ... ... |                               | 17  |
| <i>Glaucoma :—</i>                     |                                 |                               |     |
| Primary                                | ... ... ... ... ... ... ...     |                               | 11  |
| Secondary :—                           |                                 |                               |     |
| Anterior synechia or adherent leucoma  | ... ... ... ... ...             |                               | 77  |
| Inflammation (Irido cyclitis, etc.)... | ... ... ... ...                 |                               | 3   |
| <i>Panophthalmitis :—</i>              |                                 |                               |     |
| Exogenous                              | ... ... ... ... ...             |                               | 10  |
| <i>Sympathetic Ophthalmia</i>          | ...                             |                               | 3   |
| <i>Phthisis Bulbi :—</i>               |                                 |                               |     |
| Inflammation                           | ... ... ... ... ...             |                               | 21  |
| Post operative                         | ... ... ... ... ...             |                               | 5   |
| <i>Fly Blown Orbit</i>                 | ...                             |                               | 2   |
| <i>Unclassified</i>                    | ...                             |                               | 25  |
| <i>Undetermined</i>                    | ...                             |                               | 12  |
| <i>Examination of Cells :—</i>         |                                 |                               |     |
| Eosinophilia :—                        |                                 |                               |     |
| Positive                               | ... ... ... ... ...             |                               | 50  |
| Negative                               | ... ... ... ... ...             |                               | 57  |
| <i>Other Animals :—</i>                |                                 |                               |     |
| (Horses, mules and donkeys) :—         |                                 |                               |     |
| Diseased                               | ... ... ... ... ...             |                               | 17  |
| Normal                                 | ... ... ... ... ...             |                               | 12  |
|  |                                 | GRAND TOTAL... ...            | 609 |

TABLE XVIII.—WASSERMAN TEST.

TABLE XIX.—RESULT OF EXAMINATION FOR DIPHTHERIA SPECIMENS.

TABLE XX.—NUMBER OF BEDS AT THE OPHTHALMIC HOSPITALS.

| HOSPITAL.  | First. | Second. | Third. |
|--|--------|---------|--------|
| No. 1 Travelling ...                                       | —      | —       | 30     |
| „ 2 „  | —      | —       | 20     |
| „ 3 „  | —      | —       | 20     |
| „ 4 „  | —      | —       | 20     |
| „ 5 „  | —      | —       | 20     |
| „ 6 „  | —      | —       | 20     |
| „ 7 „  | —      | —       | 20     |
| „ 8 „  | —      | —       | 20     |
| „ 9 „  | —      | —       | 20     |
| „ 10 „   | —      | —       | 20     |
| „ 11 „   | —      | —       | 20     |
| Tanta  | —      | —       | 43     |
| Asyût  | 1      | —       | 55     |
| Mansûra  | —      | —       | 78     |
| Beni Suef  | —      | —       | 25     |
| Zagazîg  | —      | —       | 36     |
| Damanhûr   | —      | —       | 31     |
| Shibîn el Kôm  | —      | —       | 27     |
| Sohâg  | —      | —       | 23     |
| Minia  | —      | —       | 25     |
| Fayûm  | —      | —       | 10     |
| Benha  | —      | —       | 24     |
| Alexandria   | —      | —       | 31     |
| Port Said  | 2      | 4       | 42     |
| Qena   | —      | —       | 31     |
| Damietta   | —      | —       | 35     |
| Gîza   | —      | —       | 77     |
| Suez   | —      | —       | 25     |
| Mellawi  | —      | —       | 9      |
| Mit Ghamr  | —      | —       | 10     |
| Maghagha   | —      | —       | 10     |
| Fekria   | —      | —       | 13     |
| Asswan   | —      | —       | 23     |
| Rod el Farag   | 2      | 4       | 100    |
| Taieba   | —      | —       | 8      |
| Esna   | —      | —       | 24     |
| Disouk   | —      | —       | 8      |
| Santa  | —      | —       | 10     |
| Gharbia Provincial Council Travelling Ophthalmic Hospital  | —      | —       | 10     |
| Daqahlia Provincial Council Travelling Ophthalmic Hospital | —      | —       | 12     |
| TOTAL ...  | 5      | 8       | 1,085  |

TABLE XXI.—COST OF UNIFORM DIETS FOR THE IN-PATIENTS OF THE OPHTHALMIC HOSPITALS  
DURING 1930, EXCLUDING COST OF RATIONS FOR EMPLOYÉS.

| HOSPITALS. (¹)   | Number<br>of Diets issued. | Total Cost. (²)<br>L.E. | Cost per Head<br>per Day. |
|--|----------------------------|-------------------------|---------------------------|
|  |                            |                         | Mills.                    |
| Shebin el Kom ... ... ... ... ... ... ... ...                      | 9,391                      | 165                     | 17·54                     |
| Asyût ... ... ... ... ... ... ... ...                              | 18,785                     | 374                     | 19·92                     |
| No. 6 T.O.H.—Berket El Sab' and Quesna ... ... ... ...             | 5,570                      | 144                     | 25·78                     |
| Tanta ... ... ... ... ... ... ... ...                              | 14,865                     | 386                     | 25·99                     |
| Zagazig ... ... ... ... ... ... ... ...                            | 12,673                     | 344                     | 27·15                     |
| Rod el Farag ... ... ... ... ... ... ... ...                       | 31,768                     | 864                     | 27·20                     |
| Beni Suef ... ... ... ... ... ... ... ...                          | 7,583                      | 203                     | 27·27                     |
| Giza ... ... ... ... ... ... ... ...                               | 18,310                     | 501                     | 27·34                     |
| Mansoura ... ... ... ... ... ... ... ...                           | 24,975                     | 725                     | 29·03                     |
| Damanhour ... ... ... ... ... ... ... ...                          | 9,825                      | 288                     | 29·22                     |
| Minia ... ... ... ... ... ... ... ...                              | 8,561                      | 257                     | 30·01                     |
| Sohag ... ... ... ... ... ... ... ...                              | 7,279                      | 220                     | 30·24                     |
| Qena ... ... ... ... ... ... ... ...                               | 7,163                      | 218                     | 30·47                     |
| Benha ... ... ... ... ... ... ... ...                              | 8,530                      | 263                     | 30·78                     |
| Santa ... ... ... ... ... ... ... ...                              | 3,514                      | 112                     | 31·82                     |
| Fayoum ... ... ... ... ... ... ... ...                             | 3,506                      | 112                     | 31·89                     |
| Maghagha ... ... ... ... ... ... ... ...                           | 5,456                      | 174                     | 31·92                     |
| Gharbia Travelling—Bassioun, Belkas and Kallin ... ...             | 2,767                      | 91                      | 32·89                     |
| No. 11 T.O.H.—Toukh ... ... ... ... ... ... ... ...                | 6,045                      | 199                     | 32·94                     |
| No. 10 T.O.H.—Dishna and Luxor ... ... ... ... ... ... ... ...     | 6,697                      | 223                     | 33·20                     |
| No. 3 T.O.H.—Edfu and Kom Ombo ... ... ... ... ... ... ... ...     | 5,626                      | 188                     | 33·38                     |
| No. 5 T.O.H.—Girga and Tahta ... ... ... ... ... ... ... ...       | 6,762                      | 232                     | 34·31                     |
| No. 4 T.O.H.—Abou Kebir and Fakous ... ... ... ... ... ... ... ... | 6,541                      | 252                     | 38·55                     |
| No. 7 T.O.H.—Abu Ksah and Beba... ... ... ... ... ... ... ...      | 6,712                      | 259                     | 38·58                     |
| Daqahlia Travelling—Diarb Nigm and Aga (³) ... ... ... ...         | 3,294                      | 134                     | 40·81                     |
| No. 8 T.O.H.—Matai and Samalout... ... ... ... ... ... ... ...     | 6,281                      | 267                     | 42·48                     |
| No. 9 T.O.H.—Ayat and Saff ... ... ... ... ... ... ... ...         | 7,039                      | 312                     | 44·32                     |
| No. 2 T.O.H.—Kafr El Dawar... ... ... ... ... ... ... ...          | 6,292                      | 296                     | 46·99                     |
| No. 1 T.O.H.—Cairo ... ... ... ... ... ... ... ...                 | 9,900                      | 463                     | 47·20                     |
| <b>TOTAL... ... ...</b>  |                            | <b>271,696</b>          | <b>8,268</b>              |
|  |                            |                         | 30·43                     |

(¹) Excluding Ophthalmic Branches at General Hospitals.

(²) Fuel excluded.

(³) Diets were brought locally.

*Scale of Full Diet as given to all In-patients at all Ophthalmic Hospitals.*

|   | Grammes. |
|---|----------|
| Bread ... ... ... ... ... ... ... ...                 | 600      |
| Beef ... ... ... ... ... ... ... ...                  | 150      |
| Vegetables ... ... ... ... ... ... ... ...            | 150      |
| Lentils... ... ... ... ... ... ... ...                | 75       |
| Rice ... ... ... ... ... ... ... ...                  | 75       |
| Milk ... ... ... ... ... ... ... ...                  | 200      |
| Native butter ( <i>Samna Baladi</i> ) ... ... ... ... | 15       |
| Sugar ... ... ... ... ... ... ... ...                 | 30       |
| Salt ... ... ... ... ... ... ... ...                  | 20       |

TABLE XXII.—SOURCES OF PROVISION OF OPHTHALMIC HOSPITALS.

| HOSPITALS.   | Date at which opened. | Government Grant.                              | Public Subscription or Private Benediction. | Provincial Councils or Municipalities. |
|--|-----------------------|--|---|--|
|  |                       | L.E.   | L.E.  | L.E.                                   |
| No. 1 Travelling (retained at Cairo for provision of clinical facilities for teaching) | 1904                  | —  | 1,000                                       | —                                      |
| No. 2 Travelling ... ... ...   | 1905                  | —  | 1,000                                       | —                                      |
| Tanta ... ... ... ...  | 1908                  | 8,463  | —   | —                                      |
| Asyût ... ... ... ...  | 1911                  | 8,817 and site                                 | 5,004                                       | —                                      |
| Mansûra ... ... ... ...  | { 1912                | —  | 5,000                                       | —                                      |
| Beni Suef ... ... ... ...  | { 1912                | —  | 4,000                                       | —                                      |
| Asyût Travelling ... ... ...   | { 1912                | —  | —   | 720                                    |
| Zagazig ... ... ... ...  | { 1912                | —  | —   | 4,286                                  |
| Mahalla el Kubra... ...  | { 1913                | —  | —   | 2,400                                  |
| Kafr el Zayat... ... ...   | { 1913                | —  | —   | 2,200                                  |
| Daqahlia Travelling ... ...  | { 1913                | —  | —   | 720                                    |
| Damanhour ... ... ... ...  | { 1914                | —  | —   | 5,000                                  |
| Shebin el Kom ... ... ...  | { 1914                | —  | 5,422                                       | —                                      |
| Sohag ... ... ... ...  | { 1914                | 960  | 4,000                                       | —                                      |
| Minia ... ... ... ...  | { 1915                | —  | —   | 5,500                                  |
| Santa ... ... ... ...  | { 1915                | —  | —   | 2,600                                  |
| Fayoum ... ... ... ...   | 1916                  | Site   | —   | 4,000                                  |
| No. 3 Travelling ... ... ...   | 1918                  | —  | —   | 1,500                                  |
| Banha ... ... ... ...  | { 1920                | —  | 14,000                                      | —                                      |
| Alexandria (Oph. Branch) ...   | { 1920                | Annexed to General Hospital.                   | —   | —                                      |
| Port Said... ... ... ...   | 1921                  | 18,620   | —   | 1,000                                  |
| Qena... ... ... ...  | { 1923                | —  | 12,400                                      | 2,800                                  |
| Damietta (Oph. Branch) ...   | { 1923                | 1,000<br>Annexed to General Hospital.          | 240   | —                                      |
| "Fouad I" Oph. H., Giza. ...   | { 1924                | 3,000 and site<br>Annexed to General Hospital. | 8,668                                       | 600                                    |
| Suez (Oph. Branch) ... ...   | { 1924                | —  | —   | —                                      |
| No. 4 Travelling ... ... ...   | { 1925                | 2,000  | —   | —                                      |
| „ 5 „ ... ... ...  | { 1925                | 2,000  | —   | 950                                    |
| Menuof ... ... ... ...   | { 1925                | —  | —   | 950                                    |
| Ashmoun... ... ... ...   | { 1925                | —  | —   | —                                      |
| Memorial Ophthalmic Laboratory, Giza ... ...   | { 1926                | 2,000  | 6,600                                       | —                                      |
| Berrim (Oph. Branch)... ...  | { 1926                | Annexed to General Hospital.                   | —   | —                                      |
| Mellawi ( „ „ ) ...  | { 1926                | —  | —   | —                                      |
| No. 6 Travelling ... ... ...   | { 1927                | 2,280  | —   | —                                      |
| „ 7 „ ... ... ...  | { 1927                | 2,280<br>Annexed to General Hospital.          | —   | —                                      |
| Mit Ghâmr (Oph. Branch)...   | { 1927                | —  | —   | 1,500                                  |
| Gharbia Travelling ... ...   | { 1927                | —  | —   | —                                      |
| Maghagha ... ... ... ...   | { 1927                | —  | 1,000                                       | 5,000                                  |
| No. 8 Travelling ... ... ...   | { 1928                | 2,500  | —   | —                                      |
| „ 9 „ ... ... ...  | { 1928                | 2,500  | —   | —                                      |
| „ 10 „ ... ... ...   | { 1928                | 2,500<br>Annexed to General Hospital.          | —   | —                                      |
| Fikria (Oph. Branch) ... ...   | { 1928                | —  | —   | —                                      |
| No. 11 Travelling ... ... ...  | { 1929                | 2,500  | —   | —                                      |
| Asswân (Oph. Branch) ... ...   | { 1929                | 6,450 Annexed to General Hospital.             | —   | —                                      |
| "Princess Fawkia" (Oph. Hosp.) Rod el Farag... ...                                     | { 1929                | 25,000   | —   | —                                      |
| Taieba (Oph. Branch) ... ...   | { 1930                | Annexed to General Hospital.                   | —   | —                                      |
| Esna (Oph. Branch) ... ...   | { 1930                | Annexed to General Hospital.                   | —   | —                                      |
| Disouk (Oph. Branch) ... ...   | { 1930                | —  | —   | —                                      |
| <b>TOTAL ... ...</b>   |                       | <b>92,870</b>                                  | <b>68,334</b>                               | <b>41,726</b>                          |

TABLE XXIII.—ACTUAL EXPENDITURE 1930.—(A) CENTRAL ADMINISTRATION.

| CHAPTER.   | Grant.            | Expenditure. |       |
|--|-------------------|--------------|-------|
|  |                   | L.E.         | L.E.  |
| Pensionable Staff ... ... ... ... ... ... ... ... ... ...    | 5,349             | 6,037        |       |
| Hors Cadre Staff ... ... ... ... ... ... ... ... ...         | 398               | 398          |       |
| Transport, Transfer and Travelling Allowance ... ... ... ... | 553               | 553          |       |
| Telephones ... ... ... ... ... ... ... ...                   | 23                | — } *        |       |
| Telegraphs ... ... ... ... ... ... ... ...                   | 10                | — }          |       |
|  | TOTAL ... ... ... | 7,333        | 6,988 |

\* Included in the general expenditure of the various units of the whole Department.

TABLE XXIV.—ACTUAL EXPENDITURE 1930.—(B) GOVERNMENT OPHTHALMIC HOSPITALS.

| CHAPTER.   | Grant.            | Total Actual Expenditure. |      |
|--|-------------------|---------------------------|------|
|  |                   | L.E.                      | L.E. |
| Pensionable Staff ... ... ... ... ... ... ... ... ...    | 26,878            | 25,251                    |      |
| Hors Cadre Staff ... ... ... ... ... ... ... ...         | 19,139            | 17,895                    |      |
| Transport, transfer and travelling allowance ... ... ... | 2,562             | 2,247                     |      |
| Food ... ... ... ... ... ... ... ...                     | 13,826            | 11,894                    |      |
| Forage ... ... ... ... ... ... ... ...                   | *                 | 151                       |      |
| Water ... ... ... ... ... ... ... ...                    | 809               | 669                       |      |
| Light ... ... ... ... ... ... ... ...                    | 429               | 453                       |      |
| Disposal of sewage ... ... ... ... ... ... ... ...       | 122               | 83                        |      |
| Heating ... ... ... ... ... ... ... ...                  | *                 | 469                       |      |
| Rent ... ... ... ... ... ... ... ...                     | 224               | 146                       |      |
| Telegrams and Telephones ... ... ... ... ... ... ... ... | 248               | 177                       |      |
| <i>Stores :—</i>   |                   |                           |      |
| General equipment ... ... ... ... ... ... ... ...        |                   | 7,860                     |      |
| Surgical „ ... ... ... ... ... ... ... ...               |                   | 373                       |      |
| „ Instruments ... ... ... ... ... ... ... ...            | *                 | 1,898                     |      |
| Drugs ... ... ... ... ... ... ... ...                    |                   | 3,288                     |      |
| Dressings ... ... ... ... ... ... ... ...                |                   | 930                       |      |
| Transport of Stores ... ... ... ... ... ... ... ...      | 1,000             | 298                       |      |
| Petty Expenses... ... ... ... ... ... ... ...            | 793               | 398                       |      |
|  | TOTAL ... ... ... | 74,480 †                  |      |

\* No special grant for the Ophthalmic Hospitals. The grant is for the various units for the whole Department.

† Excluding repairs, being omitted as the credit is at the disposal of the Public Works Ministry.

TABLE XXV.— ACTUAL EXPENDITURE 1930, GOVERNMENT OPHTHALMIC HOSPITALS (per Unit)

| No.                           | T.O.H. | L.E.   |
|-------------------------------|--------|--------|
| " 1                           | ...    | 3,724  |
| " 2                           | ...    | 1,414  |
| " 3                           | ...    | 1,854  |
| " 4                           | ...    | 1,890  |
| " 5                           | ...    | 2,003  |
| " 6                           | ...    | 1,159  |
| " 7                           | ...    | 1,769  |
| " 8                           | ...    | 1,907  |
| " 9                           | ...    | 1,856  |
| " 10                          | ...    | 2,075  |
| " 11                          | ...    | 1,759  |
| Tanta                         | ...    | 2,923  |
| Assiut                        | ...    | 2,203  |
| Mansoura                      | ...    | 3,187  |
| Beni Suef                     | ...    | 2,162  |
| Zagazig                       | ...    | 2,583  |
| Damanhour                     | ...    | 1,892  |
| Shebin El Kom                 | ...    | 1,361  |
| Sohag                         | ...    | 2,454  |
| Minia                         | ...    | 2,122  |
| Fayum                         | ...    | 1,937  |
| Benha                         | ...    | 2,251  |
| Alexandria Branch and Schools | ...    | 587    |
| Port Said                     | ...    | 1,868  |
| Qena                          | ...    | 1,816  |
| Damietta Branch               | ...    | 776    |
| Giza                          | ...    | 7,839  |
| Suez Branch                   | ...    | 637    |
| Berrim Branch                 | ...    | 543    |
| Mellawi Branch                | ...    | 583    |
| Mit Ghamr Branch              | ...    | 826    |
| Maghagha                      | ...    | 1,500  |
| Fikria Branch                 | ...    | 826    |
| Asswan Branch                 | ...    | 1,087  |
| Rod el Farag                  | ...    | 6,180  |
| Taieba Branch                 | ...    | 512    |
| Esna Branch                   | ...    | 603    |
| Disouk Branch                 | ...    | 599    |
| Cairo Schools                 | ...    | 1,213  |
| TOTAL                         | ...    | 74,480 |

N.B.—Expenditures of Ophthalmic Branches do not include Furniture General which forms part of General Hospitals Supply.

TABLE XXVI—ACTUAL EXPENDITURE 1930, PROVINCIAL COUNCIL OPHTHALMIC HOSPITALS (per Unit).

*Gharbia Provincial Council :—*

|                     | L.E. |
|---------------------|------|
| Mahalla El Kubra    | 863  |
| Kafr el Zayat       | 682  |
| Santa               | 926  |
| Travelling Hospital | 824  |

*Assiût Provincial Council :—*

|                     |     |
|---------------------|-----|
| Travelling Hospital | 703 |
|---------------------|-----|

*Daqahlia Provincial Council :—*

|                     |     |
|---------------------|-----|
| Travelling Hospital | 937 |
|---------------------|-----|

*Menufia Provincial Council :—*

|         |     |
|---------|-----|
| Menouf  | 533 |
| Ashmoun | 687 |

TABLE XXVII.—COMPARISON OF THE COST OF MAINTENANCE OF A PERMANENT  
OPHTHALMIC HOSPITAL IN 1914 AND 1930.

|  | Number. | 1914 | TOTAL. | Number. | 1930 | TOTAL. |
|--|---------|------|--------|---------|------|--------|
|  |         | L.E. | L.E.   |         | L.E. | L.E.   |
| <b>ART. 1.—Salaries, Wages, and Allowances :—</b>              |         |      |        |         |      |        |
| <b>A.—Pensionable Staff :—</b>                                 |         |      |        |         |      |        |
| Medical Officer ... ... ... ... ... ...                        | 2       | 336  |        | 2       | 420  |        |
| Clerk ... ... ... ... ... ...                                  | 1       | 60   |        | 1       | 90   |        |
|  | 3       |      | 396    | 3       |      | 510    |
| <b>B.—Hors Cadre Staff :—</b>                                  |         |      |        |         |      |        |
| Moawin ... ... ... ... ... ...                                 | 1       | 48   |        | 1       | 60   |        |
| Chief attendant ... ... ... ... ... ...                        | 1       | 36   |        | 2       | 84   |        |
| Attendants (male) ... ... ... ... ... ...                      | 2       | 42   |        | 2       | 60   |        |
| (female) ... ... ... ... ... ...                               | 2       | 36   |        | 2       | 42   |        |
| Cook " ... ... ... ... ... ...                                 | 1       | 24   |        | 1       | 42   |        |
| Sai ... ... ... ... ... ...                                    | 1       | 18   |        | 1       | 30   |        |
| Gardener ... ... ... ... ... ...                               | —       | —    |        | 1       | 30   |        |
| Boab ... ... ... ... ... ...                                   | 1       | 18   |        | 1       | 30   |        |
| Sundry subordinate staff ... ... ... ... ... ...               | 3       | 54   |        | 2       | 60   |        |
|  | 12      |      | 276    | 13      |      | 438    |
| <b>C.—Allowances... ... ... ... ... ...</b>                    |         |      |        |         |      |        |
|  |         | 72   | 72     |         | —    | —      |
| <b>ART. 2.—Transport, Transfer and Travelling Allowance :—</b> |         |      |        |         |      |        |
| Transport ... ... ... ... ... ...                              | {       | 50   | 50     | {       | 50   | 50     |
| Transfer ... ... ... ... ... ...                               |         |      |        |         |      |        |
| Travelling allowance... ... ... ...                            |         |      |        |         |      |        |
| <b>ART. 3.—Food ... ... ... ... ... ...</b>                    |         |      |        |         |      |        |
|  |         |      | 139    |         |      | 360    |
| <b>ART. 5.—Rent, Water, Lighting, etc. :—</b>                  |         |      |        |         |      |        |
| Water ... ... ... ... ... ...                                  |         | 30   |        |         | 52   |        |
| Lighting ... ... ... ... ... ...                               |         | 40   |        |         | 48   |        |
| Heating ... ... ... ... ... ...                                |         | 20   |        | *       | —    |        |
| Sewage ... ... ... ... ... ...                                 |         | 12   |        | *       | —    |        |
|  |         |      | 102    |         |      | 100    |
| <b>ART. 6.—Books and Periodicals ... ... ...</b>               |         |      |        |         |      |        |
|  |         |      | 1      |         | *    | —      |
| <b>ART. 7.—Telegrams and Telephones :—</b>                     |         |      |        |         |      |        |
| Telegrams ... ... ... ... ... ...                              | {       | 9    | 9      | {       | 2    | 12     |
| Telephones ... ... ... ... ... ...                             |         |      |        |         |      |        |
| <b>ART. 8.—Petty Expenses ... ... ... ... ...</b>              |         |      |        |         |      |        |
|  |         |      | 12     |         |      | 30     |
| <b>ART. 11.—Stores ... ... ... ... ... ...</b>                 |         |      |        |         |      |        |
|  |         |      | 300    |         |      | 500    |
| <b>TOTAL ... ... ...</b>                                       |         |      |        |         |      |        |
|  |         |      | 1,357  |         |      | 2,000  |

\* No special Grant for Ophthalmic Hospitals but the Grants are for the whole Department.

### **Statistics of Ophthalmic Treatment in Schools, 1930-1931.**

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Ophthalmic treatment has been carried out at the Primary Government Schools of Tanta, Asyût, Mansûra, Beni Suef, Zagazîg, Damanhûr, Shibîn el Kôm, Suhâg, Minya, Faiyûm, Gîza, Benha, Moharram Bey and Ras el Tîn at Alexandria, Abbâsîya, Mohammad Aly, Munîra, Mohammadîya, Gamalîya, Abbas, Bab el Shaaria, Shubra, Abdin, Kerabia, Nasria and Nahassin at Cairo, Qena, Port Said, Damietta, Suez, Asswan and Esna.

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TABLE Ia.—CONDITION OF CONJUNCTIVA (Beginning of the Year).

| SCHOOLS.                 | No<br>Trachoma. | Non-trachomatous<br>conjunctivitis. | TRACHOMA. |       |       |       | TOTAL. |
|--------------------------|-----------------|-------------------------------------|-----------|-------|-------|-------|--------|
|                          |                 |                                     | I.        | II.   | III.  | IV.   |        |
| Tanta ... ... ...        | 57              | —                                   | 45        | 89    | 138   | 239   | 568    |
| Per cent ... ...         | 10·04           | —                                   | 7·22      | 15·67 | 24·29 | 42·08 |        |
| Assiût ... ... ...       | 45              | —                                   | 53        | 90    | 149   | 186   | 523    |
| Per cent ... ...         | 8·60            | —                                   | 10·13     | 17·21 | 28·49 | 35·56 |        |
| Mansûra ... ... ...      | 28              | —                                   | 123       | 37    | 66    | 390   | 644    |
| Per cent ... ...         | 4·35            | —                                   | 19·10     | 5·75  | 10·25 | 60·56 |        |
| Beni Suef ... ... ...    | 64              | —                                   | 32        | 118   | 138   | 94    | 446    |
| Per cent ... ..          | 14·35           | —                                   | 7·17      | 26·46 | 30·54 | 21·08 |        |
| Zagazig ... ... ...      | 15              | —                                   | 10        | 35    | 158   | 328   | 546    |
| Per cent ... ...         | 2·75            | —                                   | 1·83      | 6·41  | 28·94 | 60·07 |        |
| Damanhûr ... ... ...     | 22              | —                                   | 53        | 38    | 155   | 56    | 324    |
| Per cent ... ...         | 6·79            | —                                   | 16·36     | 11·73 | 47·84 | 17·28 |        |
| Shibîn el Kôm ... ...    | 13              | —                                   | 3         | 35    | 37    | 66    | 154    |
| Per cent ... ...         | 8·44            | —                                   | 1·95      | 22·73 | 24·03 | 42·86 |        |
| Sohâg ... ... ...        | 9               | —                                   | 6         | 49    | 99    | 91    | 254    |
| Per cent ... ...         | 3·54            | —                                   | 2·36      | 19·29 | 38·98 | 35·82 |        |
| Minya ... ... ...        | 27              | —                                   | 17        | 63    | 78    | 95    | 280    |
| Per cent ... ..          | 9·64            | —                                   | 6·07      | 22·50 | 27·86 | 33·93 |        |
| Faiyoum ... ... ...      | 13              | —                                   | 6         | 55    | 104   | 66    | 244    |
| Per cent ... ...         | 5·33            | —                                   | 2·46      | 22·54 | 42·62 | 27·05 |        |
| Gîza ... ... ...         | 11              | —                                   | 62        | 34    | 163   | 85    | 355    |
| Per cent ... ...         | 3·10            | —                                   | 17·46     | 9·58  | 45·92 | 23·54 |        |
| Benha ... ... ...        | 14              | 2                                   | 51        | 67    | 34    | 64    | 232    |
| Per cent ... ...         | 6·04            | 0·86                                | 21·98     | 28·88 | 14·65 | 27·59 |        |
| Moharram Bey ... ...     | 57              | —                                   | 15        | 12    | 19    | 135   | 238    |
| Per cent ... ...         | 23·95           | —                                   | 6·30      | 5·04  | 7·98  | 56·72 |        |
| Abbâsiya ... ... ...     | 52              | —                                   | 78        | 55    | 152   | 224   | 561    |
| Per cent ... ...         | 9·27            | —                                   | 13·90     | 9·80  | 27·09 | 39·93 |        |
| Mohammad Aly ... ... ... | 20              | —                                   | 109       | 57    | 307   | 66    | 559    |
| Per cent ... ...         | 3·58            | —                                   | 19·50     | 10·20 | 54·92 | 11·81 |        |
| Ras el Tin ... ... ...   | 82              | —                                   | 32        | 21    | 45    | 343   | 523    |
| Per cent ... ...         | 15·68           | —                                   | 6·12      | 4·02  | 8·60  | 65·58 |        |
| Qena ... ... ...         | 40              | —                                   | 60        | 11    | 34    | 80    | 225    |
| Per cent ... ...         | 17·78           | —                                   | 26·67     | 4·90  | 15·11 | 35·56 |        |
| Munîra ... ... ...       | 50              | —                                   | 131       | 45    | 113   | 192   | 531    |
| Per cent ... ...         | 9·43            | —                                   | 24·67     | 8·47  | 21·28 | 36·16 |        |
| Mohammadâia ... ... ...  | 27              | —                                   | 114       | 56    | 127   | 124   | 448    |
| Per cent ... ...         | 6·03            | —                                   | 25·45     | 12·50 | 28·35 | 27·68 |        |
| Gamaliya ... ... ...     | 17              | —                                   | 35        | 18    | 77    | 72    | 219    |
| Per cent ... ...         | 7·76            | —                                   | 15·98     | 8·22  | 35·16 | 32·88 |        |
| Abbâs ... ... ...        | 22              | —                                   | 55        | 26    | 136   | 254   | 493    |
| Per cent ... ...         | 4·46            | —                                   | 11·16     | 5·27  | 27·59 | 51·52 |        |
| Bab El Shaaria ... ...   | 26              | —                                   | 59        | 35    | 74    | 89    | 283    |
| Per cent ... ...         | 9·19            | —                                   | 20·85     | 12·37 | 26·15 | 31·45 |        |
| Shubra ... ... ...       | 70              | —                                   | 75        | 59    | 167   | 244   | 715    |
| Per cent ... ...         | 9·79            | —                                   | 10·49     | 8·25  | 23·36 | 48·11 |        |
| Abdîn ... ... ...        | 19              | —                                   | 43        | 24    | 82    | 203   | 371    |
| Per cent ... ...         | 5·12            | —                                   | 11·59     | 6·47  | 22·10 | 54·72 |        |
| Qerabia ... ... ...      | 13              | —                                   | 56        | 25    | 236   | 122   | 452    |
| Per cent ... ...         | 2·88            | —                                   | 12·39     | 5·53  | 52·21 | 26·99 |        |
| Nasria ... ... ...       | 15              | —                                   | 18        | 18    | 33    | 125   | 207    |
| Per cent ... ...         | 7·25            | —                                   | 8·70      | 7·73  | 15·94 | 60·39 |        |
| Nahhassim ... ... ...    | 3               | —                                   | 100       | 16    | 71    | 35    | 225    |
| Per cent ... ...         | 1·33            | —                                   | 44·44     | 7·11  | 31·56 | 15·56 |        |
| Port Said ... ... ...    | 22              | —                                   | 88        | 13    | 59    | 115   | 297    |
| Per cent ... ...         | 7·41            | —                                   | 29·63     | 4·38  | 19·87 | 38·72 |        |
| Damietta ... ... ...     | 46              | —                                   | 5         | 9     | 13    | 169   | 242    |
| Per cent ... ...         | 19·01           | —                                   | 2·07      | 3·72  | 5·37  | 69·83 |        |
| Suez ... ... ...         | 3               | —                                   | 14        | 50    | 97    | 77    | 241    |
| Per cent ... ...         | 1·24            | —                                   | 5·81      | 20·75 | 40·25 | 31·95 |        |
| Asswan ... ... ...       | 8               | —                                   | 32        | 26    | 78    | 17    | 161    |
| Per cent ... ...         | 4·97            | —                                   | 19·88     | 16·15 | 48·45 | 10·56 |        |
| Esna ... ... ...         | 11              | 1                                   | 14        | 15    | 87    | 28    | 156    |
| Per cent ... ...         | 7·05            | 0·64                                | 8·97      | 9·62  | 55·77 | 11·95 |        |
| TOTAL ... ... ...        | 921             | 3                                   | 1,594     | 1,299 | 3,326 | 4,574 | 11,717 |
| Per cent ... ...         | 7·86            | 0·03                                | 13·60     | 11·08 | 28·39 | 39·04 |        |

TABLE Ib.—CONDITION OF CONJUNCTIVA (End of the Year).

| SCHOOL.            | No<br>Trachoma. | Non-trachomatous<br>conjunctivitis. | TRACHOMA.  |            |              |              | TOTAL.        |
|--------------------|-----------------|-------------------------------------|------------|------------|--------------|--------------|---------------|
|                    |                 |                                     | I.         | II.        | III.         | IV.          |               |
| Tanta ...          | 64              | —                                   | 36         | 11         | 205          | 263          | 579           |
| Per cent           | 11·05           | —                                   | 6·22       | 1·90       | 35·41        | 45·42        |               |
| Assiût ...         | 45              | —                                   | —          | 2          | 222          | 248          | 517           |
| Per cent           | 8·70            | —                                   | —          | 0·39       | 42·94        | 47·97        |               |
| Mansûra ...        | 23              | —                                   | 91         | —          | 105          | 391          | 610           |
| Per cent           | 3·77            | —                                   | 14·91      | —          | 17·21        | 64·10        |               |
| Beni Suef ...      | 57              | —                                   | 13         | 5          | 237          | 98           | 410           |
| Per cent           | 13·90           | —                                   | 3·17       | 1·22       | 57·80        | 23·90        |               |
| Zagazig ...        | 16              | —                                   | 3          | —          | 120          | 393          | 532           |
| Per cent           | 3·01            | —                                   | 0·56       | —          | 22·56        | 73·87        |               |
| Damanhûr ...       | 22              | —                                   | 15         | —          | 221          | 66           | 324           |
| Per cent           | 6·79            | —                                   | 4·63       | —          | 68·21        | 20·37        |               |
| Shibîn el Kôm ...  | 4               | —                                   | —          | —          | 35           | 105          | 144           |
| Per cent           | 2·78            | —                                   | —          | —          | 24·30        | 72·92        |               |
| Sohâg ...          | 8               | —                                   | 13         | 18         | 146          | 68           | 253           |
| Per cent           | 3·16            | —                                   | 5·14       | 7·11       | 57·71        | 26·88        |               |
| Minya ...          | 27              | —                                   | 6          | —          | 92           | 145          | 270           |
| Per cent           | 10·00           | —                                   | 2·22       | —          | 34·07        | 53·70        |               |
| Faiyoun ...        | 13              | —                                   | —          | 3          | 142          | 84           | 242           |
| Per cent           | 5·37            | —                                   | —          | 1·24       | 58·68        | 34·71        |               |
| Gîza ...           | 8               | —                                   | 9          | —          | 189          | 130          | 336           |
| Per cent           | 2·38            | —                                   | 2·68       | —          | 56·25        | 38·69        |               |
| Benha ...          | 14              | —                                   | 4          | 5          | 90           | 121          | 234           |
| Per cent           | 5·98            | —                                   | 1·71       | 2·14       | 38·46        | 51·71        |               |
| Moharram Bey ...   | 57              | —                                   | —          | —          | 24           | 142          | 223           |
| Per cent           | 25·56           | —                                   | —          | —          | 10·76        | 63·68        |               |
| Abbâssiya ...      | 50              | —                                   | 2          | —          | 266          | 220          | 538           |
| Per cent           | 9·29            | —                                   | 0·37       | —          | 49·44        | 40·89        |               |
| Mohammad Aly ...   | 20              | —                                   | 77         | 13         | 339          | 97           | 546           |
| Per cent           | 3·66            | —                                   | 14·10      | 2·38       | 62·09        | 17·77        |               |
| Râs el Tîm ...     | 81              | —                                   | —          | 2          | 68           | 364          | 515           |
| Per cent           | 15·73           | —                                   | —          | 0·39       | 13·20        | 70·68        |               |
| Qena ...           | 39              | —                                   | 11         | —          | 86           | 70           | 206           |
| Per cent           | 18·93           | —                                   | 5·34       | —          | 41·75        | 33·98        |               |
| Munîra ...         | 48              | —                                   | 120        | 5          | 123          | 210          | 506           |
| Per cent           | 9·49            | —                                   | 23·71      | 0·99       | 24·31        | 41·50        |               |
| Mohammadiya ...    | 25              | —                                   | 112        | 7          | 146          | 155          | 445           |
| Per cent           | 5·62            | —                                   | 25·17      | 1·57       | 32·81        | 34·83        |               |
| Gamaliya ...       | 15              | —                                   | 32         | 2          | 77           | 85           | 211           |
| Per cent           | 7·11            | —                                   | 15·16      | 0·95       | 36·49        | 40·28        |               |
| Abbâs ...          | 23              | —                                   | —          | 1          | 209          | 253          | 486           |
| Per cent           | 4·73            | —                                   | —          | 0·20       | 43·00        | 52·06        |               |
| Bab el-Shaaria ... | 24              | —                                   | 29         | 3          | 117          | 90           | 263           |
| Per cent           | 9·12            | —                                   | 11·03      | 1·14       | 44·48        | 34·22        |               |
| Shubra ...         | 70              | —                                   | 5          | 1          | 219          | 392          | 687           |
| Per cent           | 10·19           | —                                   | 0·73       | 0·14       | 31·88        | 57·06        |               |
| Abdin ...          | 18              | —                                   | —          | 2          | 123          | 193          | 336           |
| Per cent           | 5·36            | —                                   | —          | 0·59       | 36·61        | 57·44        |               |
| Qerabia ...        | 13              | —                                   | 30         | —          | 184          | 200          | 427           |
| Per cent           | 3·04            | —                                   | 7·02       | —          | 43·09        | 46·84        |               |
| Nasria ...         | 15              | —                                   | —          | —          | 45           | 134          | 194           |
| Per cent           | 7·73            | —                                   | —          | —          | 23·19        | 69·07        |               |
| Nahassin ...       | 2               | —                                   | 90         | 3          | 86           | 37           | 218           |
| Per cent           | 0·92            | —                                   | 41·28      | 1·37       | 39·45        | 16·97        |               |
| Port Said ...      | 22              | —                                   | 31         | —          | 76           | 165          | 294           |
| Per cent           | 7·48            | —                                   | 10·54      | —          | 25·85        | 56·12        |               |
| Damietta ...       | 45              | —                                   | —          | —          | 6            | 189          | 240           |
| Per cent           | 18·75           | —                                   | —          | —          | 2·50         | 78·75        |               |
| Suez ...           | 2               | —                                   | —          | 1          | 165          | 77           | 245           |
| Per cent           | 0·81            | —                                   | —          | 0·41       | 67·35        | 31·43        |               |
| Asswan ...         | 2               | —                                   | 21         | —          | 92           | 32           | 147           |
| Per cent           | 1·36            | —                                   | 14·28      | —          | 62·58        | 21·77        |               |
| Esna ...           | 11              | —                                   | 14         | 29         | 74           | 25           | 153           |
| Per cent           | 7·19            | —                                   | 9·15       | 18·95      | 48·37        | 16·34        |               |
| <b>TOTAL ...</b>   | <b>883</b>      | <b>—</b>                            | <b>764</b> | <b>113</b> | <b>4,329</b> | <b>5,248</b> | <b>11,331</b> |
| Per cent ...       | 7·79            | —                                   | 6·74       | 1·00       | 38·20        | 46·26        |               |

TABLE II *a.*—EFFECT OF TREATMENT ON SERIOUS STAGES OF TRACHOMA.

| YEAR.                         | BEGINNING OF THE YEAR.             |  |      | END OF THE YEAR.                                 |      |
|-------------------------------|------------------------------------|--|------|--|------|
|                               | Pupils with any Stage of Trachoma. | Pupils with serious Stages of Trachoma I and II. |      | Pupils with serious Stages of Trachoma I and II. |      |
|                               |                                    | No.  | No.  | Per Cent.  | No   |
| 1907-1908 ... ... ... ... ... | 464                                | 289  | 62·3 | —  | —    |
| 1914-1915 ... ... ... ... ... | 1,553                              | 342  | 22·0 | 61   | 4·0  |
| 1916-1917 ... ... ... ... ... | 1,528                              | 327  | 21·4 | 48   | 3·0  |
| 1917-1918 ... ... ... ... ... | 1,699                              | 282  | 16·6 | 71   | 4·2  |
| 1919-1920 ... ... ... ... ... | 2,454                              | 410  | 16·7 | 201  | 8·2  |
| 1920-1921 ... ... ... ... ... | 3,363                              | 643  | 19·1 | 290  | 8·6  |
| 1921-1922 ... ... ... ... ... | 5,036                              | 1,369  | 27·2 | 580  | 11·5 |
| 1922-1923 ... ... ... ... ... | 6,140                              | 1,982  | 32·3 | 892  | 14·5 |
| 1923-1924 ... ... ... ... ... | 6,820                              | 2,115  | 31·0 | 835  | 12·2 |
| 1924-1925 ... ... ... ... ... | 7,107                              | 2,442  | 34·4 | 722  | 10·2 |
| 1925-1926 ... ... ... ... ... | 7,337                              | 1,865  | 25·4 | 374  | 5·1  |
| 1926-1927 ... ... ... ... ... | 9,053                              | 2,160  | 23·9 | 582  | 6·4  |
| 1927-1928 ... ... ... ... ... | 12,057                             | 2,819  | 23·4 | 830  | 6·9  |
| 1928-1929 ... ... ... ... ... | 11,319                             | 2,624  | 23·2 | 722  | 6·4  |
| 1929-1930 ... ... ... ... ... | 11,223                             | 3,397  | 30·2 | 919  | 8·4  |
| 1930-1931 ... ... ... ... ... | 10,793                             | 2,893  | 26·8 | 877  | 8·1  |

TABLE II *b.*—STAGES OF TRACHOMA AT BEGINNING AND END OF SCHOOL YEAR.

| STAGES OF TRACHOMA.        | BEGINNING OF THE YEAR. |           | END OF THE YEAR. |           |
|----------------------------|------------------------|-----------|------------------|-----------|
|                            | No.                    | Per Cent. | No.              | Per Cent. |
| Trachoma I ... ... ... ... | 1,594                  | 14·8      | 764              | 7·3       |
| ,, II ... ... ... ...      | 1,299                  | 12·0      | 113              | 1·1       |
| ,, III ... ... ... ...     | 3,326                  | 30·8      | 4,329            | 41·4      |
| ,, IV ... ... ... ...      | 4,574                  | 42·4      | 5,242            | 50·2      |

TABLE III *a*.—TRACHOMA AND ITS RELATION TO SCHOOL YEARS (Beginning of the Year).

| Schools                      | 1ST YEAR. |     |      |     | 2ND YEAR. |     |      |     | 3RD YEAR. |     |       |     | 4TH YEAR. |       |       |       |
|------------------------------|-----------|-----|------|-----|-----------|-----|------|-----|-----------|-----|-------|-----|-----------|-------|-------|-------|
|                              | I.        | II. | III. | IV. | I.        | II. | III. | IV. | I.        | II. | III.  | IV. | I.        | II.   | III.  | IV.   |
| Trachoma Non-<br>Gonorrhoeal | 12        | 42  | 15   | 24  | 21        | 20  | 31   | 36  | 91        | 40  | 13    | 47  | 80        | 60    | 47    | 80    |
| Trachoma Gonorrhoeal         | 19        | 46  | 25   | 45  | 10        | 18  | 38   | 23  | 53        | 41  | 12    | 17  | 64        | 14    | 17    | 64    |
| Mansûra                      | 10        | 19  | 16   | 24  | 20        | 15  | 33   | 21  | 116       | 49  | 8     | 2   | 107       | 3     | 14    | 107   |
| Beni Suef                    | 15        | 43  | 12   | 35  | 1         | 18  | 45   | 34  | 35        | 49  | 1     | 4   | 53        | 53    | 43    | 3     |
| Zagazig                      | 3         | 14  | 5    | 1   | 1         | 5   | 1    | 29  | 78        | 45  | 6     | 1   | 53        | 59    | 14    | 3     |
| Damanhûr                     | 8         | 24  | 9    | 20  | 11        | 11  | 47   | 20  | 15        | 49  | 3     | 1   | 42        | 13    | 13    | 13    |
| Alhibîn el Kôm               | 5         | 17  | 4    | 8   | 4         | 8   | 9    | 18  | 27        | 24  | 5     | 6   | 32        | 13    | 25    | 25    |
| Johâg                        | 3         | 22  | 3    | 3   | 11        | 11  | 6    | 10  | 27        | 28  | 2     | 1   | 18        | 12    | 16    | 21    |
| Imia                         | 3         | 13  | 2    | 1   | 1         | 1   | 3    | 1   | 11        | 11  | 8     | 1   | 16        | 12    | 16    | 21    |
| Fayoum                       | 5         | 31  | 9    | 24  | 14        | 14  | 17   | 13  | 31        | 27  | 1     | 1   | 19        | 19    | 19    | 19    |
| Zîza                         | 3         | 39  | 5    | 37  | 21        | 21  | 7    | 17  | 17        | 17  | 7     | 1   | 22        | 17    | 17    | 19    |
| Benza                        | 5         | 22  | 2    | 2   | 11        | 11  | 1    | 1   | 16        | 16  | 7     | 1   | 15        | 15    | 15    | 15    |
| Ioharram Bey                 | 2         | 19  | 7    | 4   | 1         | 7   | 8    | 1   | 31        | 33  | 8     | 2   | 13        | 13    | 13    | 13    |
| Ahhâssia                     | —         | 19  | 5    | 10  | 19        | 21  | 7    | 13  | 43        | 43  | 5     | 2   | 23        | 23    | 23    | 23    |
| Mohammad Aly                 | —         | 4   | 6    | 25  | 5         | 10  | 17   | 31  | 9         | 9   | 11    | 4   | 18        | 18    | 18    | 18    |
| Râs el Tin                   | —         | —   | —    | 38  | 17        | 11  | 6    | 11  | 5         | 5   | 4     | 2   | 22        | 22    | 22    | 22    |
| Qena                         | —         | —   | —    | 13  | 11        | 11  | 6    | 11  | 22        | 22  | 11    | 2   | 17        | 17    | 17    | 17    |
| Munîra                       | —         | —   | —    | 63  | 18        | 18  | 28   | 17  | 7         | 7   | 11    | 1   | 29        | 29    | 29    | 29    |
| Mohammadîya                  | —         | —   | —    | 51  | 28        | 22  | 3    | 18  | 22        | 22  | 16    | 1   | 38        | 38    | 38    | 38    |
| Zâmâliyya                    | —         | —   | —    | 22  | 3         | 19  | 19   | 14  | 48        | 48  | 10    | 7   | 13        | 13    | 13    | 13    |
| Abbâss                       | —         | —   | —    | 39  | 11        | 14  | 8    | 12  | 10        | 10  | 12    | 7   | 23        | 23    | 23    | 23    |
| Zab el Shaaria               | —         | —   | —    | 25  | 18        | 9   | 22   | 11  | 14        | 14  | 11    | 8   | 28        | 28    | 28    | 28    |
| Shoubra                      | —         | —   | —    | 35  | 8         | 13  | 54   | 13  | 34        | 16  | 11    | 6   | 11        | 11    | 11    | 11    |
| Abdin                        | —         | —   | —    | 31  | 12        | 12  | 31   | 10  | 35        | 10  | 11    | 4   | 20        | 20    | 20    | 20    |
| Qerâbia                      | —         | —   | —    | 27  | 12        | 12  | 54   | 13  | 34        | 16  | 11    | 2   | 67        | 67    | 67    | 67    |
| Nasria                       | —         | —   | —    | 35  | 10        | 10  | 34   | 10  | 35        | 10  | 11    | 4   | 1         | 1     | 1     | 1     |
| Nahhassin                    | —         | —   | —    | 27  | 12        | 12  | 54   | 13  | 34        | 16  | 11    | 1   | 29        | 29    | 29    | 29    |
| Port Said                    | —         | —   | —    | 35  | 8         | 8   | 3    | 7   | 3         | 8   | 7     | 1   | 4         | 4     | 4     | 4     |
| Damietta                     | —         | —   | —    | 37  | 6         | 6   | 43   | 13  | 37        | 6   | 12    | 7   | 1         | 1     | 1     | 1     |
| Suez                         | —         | —   | —    | 5   | 5         | 5   | 9    | 13  | 5         | 5   | 9     | 1   | 1         | 1     | 1     | 1     |
| Asswan                       | —         | —   | —    | 12  | 6         | 6   | 12   | 20  | 7         | 7   | 18    | 7   | 5         | 5     | 5     | 5     |
| Tesna                        | —         | —   | —    | 9   | 5         | 5   | 17   | 5   | 17        | 7   | 7     | 3   | 1         | 1     | 1     | 1     |
| Total                        | ... 3     | 686 | 525  | 534 | 400       | 257 | 744  | 754 | 318       | 199 | 1,089 | 204 | 190       | 1,049 | 1,381 | 1,360 |

TABLE III *b*.—COMPARISON OF SERIOUS STAGES OF TRACHOMA I and II (Beginning of the Year).

| CLASS.              | Total Number<br>of Pupils. | Total Number of<br>serious Stages of Tra-<br>choma I and II. | Per Cent. |
|---------------------|----------------------------|--|-----------|
| First Year ... ...  | 2,801                      | 1,211  | 43·92     |
| Second Year ... ... | 2,871                      | 719  | 25·04     |
| Third Year... ...   | 3,068                      | 752  | 18·64     |
| Fourth Year ... ... | 2,977                      | 394  | 13·23     |

TABLE IV.—VISION OF ALL PUPILS WITHOUT SPECTACLES.

|   |                 | TOTAL. | GRAND<br>TOTAL. | Per Cent. |
|---|-----------------|--------|-----------------|-----------|
| <i>Good Vision</i> :—                                     |                 |        |                 |           |
| (a) Normal vision in each eye 6/6 and 6/6                 | ... ... ... ... | 2,017  |                 |           |
| (b) Vision 6/6 and 6/9 or 6/9 and 6/9                     | ... ... ... ... | 3,594  | 5,611           | 47·88     |
| <i>Fair Vision</i> :—                                     |                 |        |                 |           |
| (a) Vision 6/6 and 6/12, or 6/9 and 6/12 or 6/12 and 6/12 | ... ...         | 2,471  |                 |           |
| (b) Vision 6/6 and 6/18                                   | ... ... ... ... | 380    | 2,851           | 24·33     |
| <i>Bad Vision</i> :—                                      |                 |        |                 |           |
| Fails to attain any of the above standards                | ... ... ... ... | 3,255  | 3,255           | 27·78     |
|   | TOTAL ... ...   | 11,717 | 11,717          |           |

TABLE V.—SPECTACLES ORDERED.

TABLE VI.—NUMBER OF PUPILS ORDERED SPECTACLES NOT GREATER IN STRENGTH THAN  $\pm$  6 DIOPTRES AND BY THEIR USE GOT GOOD OR FAIR VISION.

|   |     | TOTAL. | GRAND<br>TOTAL. | Per Cent.* |
|---|-----|--------|-----------------|------------|
| <i>Good Vision:</i> —                                     |     |        |                 |            |
| (a) Normal vision in each eye 6/6 and 6/6                 | ... | 40     |                 |            |
| (b) Vision 6/6 and 6/9, or 6/9 and 6/9                    | ... | 110    | 150             | 22.09      |
| <i>Fair Vision:</i> —                                     |     |        |                 |            |
| (a) Vision 6/6 and 6/12, or 6/9 and 6/12 or 6/12 and 6/12 | ... | 178    |                 |            |
| (b) Vision 6/6 and 6/18                                   | ... | 48     | 226             | 33.28      |

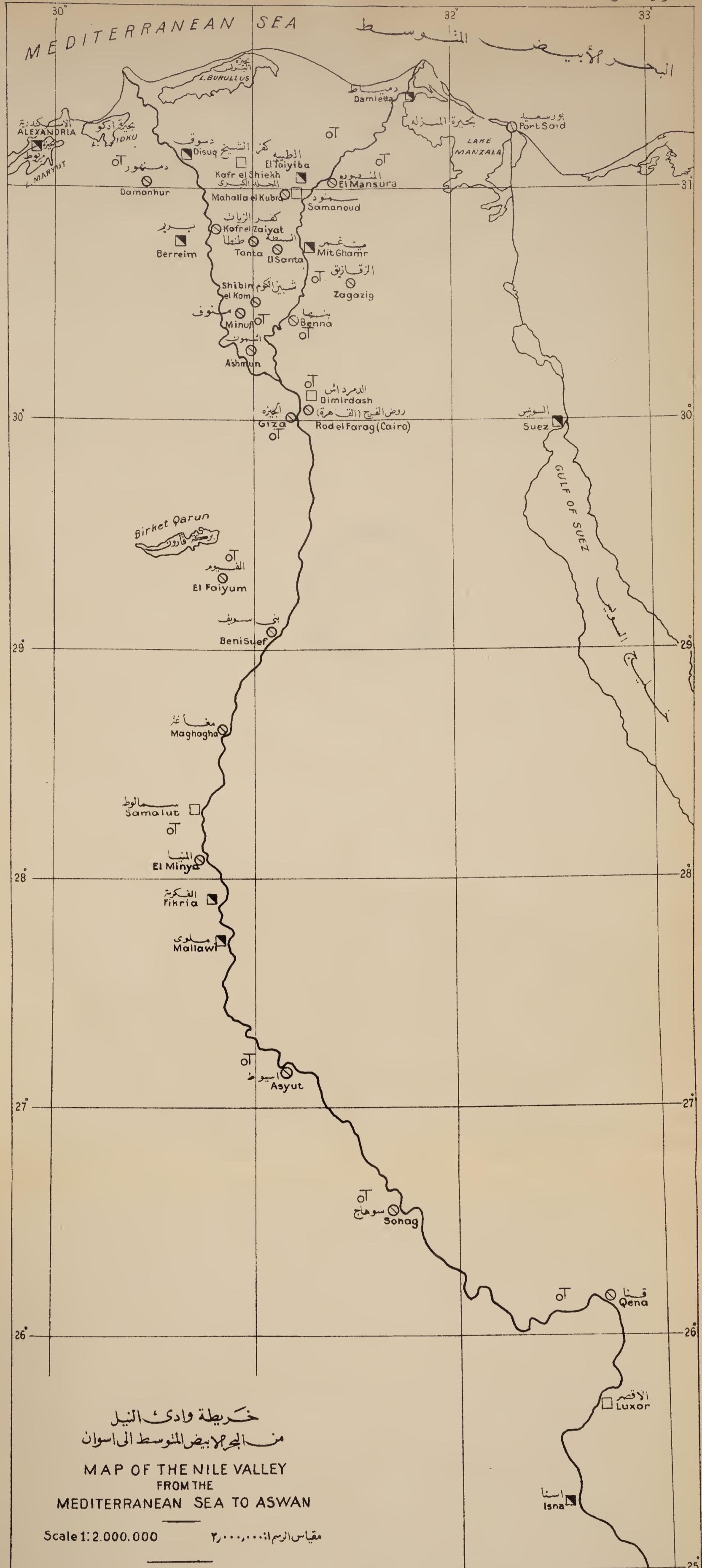
\* The percentage is taken in relation to the number of all pupils ordered spectacles (*i.e.* 679). See Table V.

TABLE VII.—CONDITION OF CORNEA BEFORE TREATMENT.

| SCHOOLS.           | Both Corneas clear. | One Cornea clear<br>the other showing<br>Opacity. | Opacity of both<br>Corneas. |
|--------------------|---------------------|---|-----------------------------|
| Tanta ...          | 543                 | 19  | 6                           |
| Asyût ...          | 486                 | 33  | 4                           |
| Mansûra ...        | 606                 | 31  | 7                           |
| Beni Suef ...      | 429                 | 15  | 2                           |
| Zagazîg ...        | 492                 | 40  | 14                          |
| Damanhûr ...       | 309                 | 13  | 2                           |
| Shibîn el Kôm ...  | 147                 | 5   | 2                           |
| Suhâg ...          | 235                 | 14  | 5                           |
| Minya ...          | 252                 | 21  | 7                           |
| Faiyûm ...         | 225                 | 8   | 11                          |
| Gîza ...           | 330                 | 21  | 4                           |
| Benha ...          | 203                 | 23  | 6                           |
| Moharram Bey ...   | 232                 | 3   | 3                           |
| Abbasîya ...       | 521                 | 31  | 9                           |
| Mohammad Aly ...   | 509                 | 33  | 17                          |
| Râs el Tin ...     | 518                 | 4   | 1                           |
| Qena ...           | 201                 | 15  | 9                           |
| Munîra ...         | 505                 | 16  | 10                          |
| Mohammadîya ...    | 408                 | 32  | 8                           |
| Gamâliya ...       | 198                 | 13  | 8                           |
| Abbâs ...          | 447                 | 25  | 21                          |
| Bab el Shaaria ... | 242                 | 29  | 12                          |
| Shubra ...         | 699                 | 11  | 5                           |
| Abdin ...          | 343                 | 19  | 9                           |
| Qerabia ...        | 434                 | 10  | 8                           |
| Nasria ...         | 197                 | 5   | 5                           |
| Nahhasin ...       | 210                 | 11  | 4                           |
| Port Said ...      | 286                 | 8   | 3                           |
| Damietta ...       | 235                 | 7   | —                           |
| Suez ...           | 226                 | 11  | 4                           |
| Asswan ...         | 149                 | 7   | 5                           |
| Esna ...           | 141                 | 5   | 10                          |
| TOTAL ...          | 10,958              | 538   | 221                         |
| Per cent ...       | 93.52               | 4.59  | 1.89                        |

TABLE VIII.—COMPARISON OF CORNEAL OPACITY AMONG PUPILS OF TANTA PRIMARY SCHOOL IN THE YEARS 1914-1915 AND 1930-1931.

| YEAR.     | Both Corneas<br>Clear. | One Cornea Clear,<br>the other showing<br>Opacity | Opacity of both<br>Corneas |
|-----------|------------------------|---|----------------------------|
| 1914-1915 | 173                    | 54  | 33                         |
| 1930-1931 | 543                    | 19  | 6                          |



١: 2.000.000

المنطقة ٥٧ ، ، ، Elling سعياً لاستئصال

**الفروع الرمدية**  **ophthalmic branches**

Units in course of Construction  الوحدات التي تمحى الانشاء





